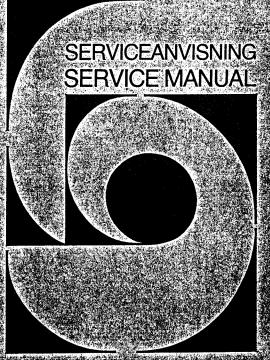
Beocenter 2200 Type 2421/22/25

2458.



Indhold

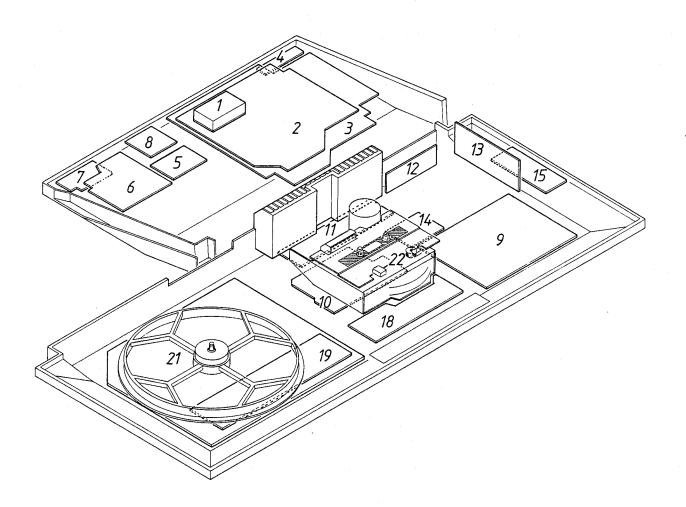
Diagrammer
Halvlederoversigt
Elektrisk stykliste
Mekanisk stykliste
Justeringer radiödel
Justeringer rbåndoptager
Justeringer pladespiller
Tekniske specifikationer
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Semi-conductors
List of electrical parts
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Adjustments radio
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Adjustments, record player
Technical specifications
Dismantling
Service tips
Insulation test

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2	AM-FM-IF-Section and MPX Decoder diagr. A
3	Control Circuit diagr. A, C, D
4	FM Keyboarddiagr. C
5	FM Preset diagr. A
6	Secondary Controls diagr. A, B, D
7	Phono Control Keyboarddiagr. E
8	Volume Control diagr. B
9	Play-Back Amplifier and Dolby Processor diagr. D
10	Rec. Amplifier and Bias Oscillator diagr. D
11	Power Amplifier diagr. B
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18	Microphone Amplifier Etc diagr. B
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1-2

Bang&Olufsen

DIAGRAMFORKLARING

På diagrammet er der angivet typenumre på transistorer og IC'er i de tilfælde hvor typenummeret er entydigt for komponentes placering i kredsløbet – f.eks. TR20/BC 557B

Hvis positionsnummeret er efterfulgt af en stjerne skal reservedelsnummeret benyttes, da denne komponent er specielt udvalgt – f.eks. TR102*.

Koordinatsystem

De største printplader er forsynet med et koordinatsystem. Komponenterne på disse printplader er på diagrammet forsynet med en koordinatbetegnelse, som fortæller i hvilket felt på printpladen de er placeret (mindre skrifttype end positionsnummeret f.eks. B3).

Styrekredsløb

I visse styrekredsløb er den aktive tilstand angivet med en bogstavsbetegnelse (Cr = High med CrO₂ bånd). Hvis betegnelsen er forsynet med negationstegn er den aktive tilstand LOW (Cr = LOW med CrO₂ bånd).

Ledningsforbindelser

Ledningsforbindelserne på diagrammet er samlet i »bundter«. De enkelte ledninger er forsynet med koder, der fortæller hvortil de går.

INTERN FORBINDELSE PÅ EN DIAGRAMSIDE

EXPLANATION OF DIAGRAM

Type numbers of transistors and IC's have been indicated on the diagram in those cases where the type number is unambiguous for the position of the component in a circuitry – e.g. TR20/BC 557B.

If the position number is followed by an asterisk the spare part number **must be used** because this component has been expecially selected – e.g. TR102*.

System of Co-ordinates

The largest PC-boards have been provided with a co-ordinate system. The components on these PC-boards are provided with a grid reference on the diagram indicating in what grid they are positioned on the PC-board (smaller typing than position numbers – e.g. B3).

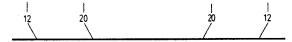
Control Circuit

In certain control circuits the active mode has been indicated by means of a letter symbol (Cr = HIGH with CrO_2 tapes). If the symbol has a negation superscript bar the active mode is LOW (Cr = LOW with CrO_2 tapes).

Wiring Connections

The wiring connections on the diagram are assembled in »bundles«. The individual wires are coded to indicate to where they are leading.

INTERNAL CONNECTION ON ONE DIAGRAM PAGE



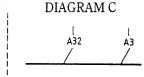
Interne forbindelser på en diagramside angives med et tal. Knækket på ledningen viser i hvilken retning den anden ende af ledningen findes.

FORBINDELSE TIL EN ANDEN DIAGRAMSIDE

DIAGRAM A

Forbindelsen til en anden diagramside angives med et tal, samt bogstav indikation på det diagram forbindelsen går til. Internal connections on a diagram page are indicated by a number. The bend of the wire indicates in which direction the other end of the wire may be found.

CONNECTION TO ANOTHER DIAGRAM PAGE



Connections to another diagram page are indicated by a number, as well as by a letter of the diagram to which the connections lead.

Målebetingelser

Alle DC spændinger er målt uden signal, i forhold til stel med voltmeter (indre modstand 10 MΩ).

DC spændinger er opgivet i volt (V). Eks. 0,7 V.

AC spændinger er målt i forhold til stel med oscilloscop eller voltmeter, med en indgangsmodstand på 1 MΩ. AC spændinger er angivet i millivolt (mV). Eks. 725 mV.

Signalveje er vist for henholdsvis AM (stilling MW), FM og for LF højre kanal. Båndoptagerens signalvej for optage position er vist i højre kanal, og gengive position er vist i venstre kanal.

Mekaniske omskiftere er vist i neutral stilling.

Symbol for sikkerhedskomponenter

Ved udskiftning af komponenter med dette symbol skal der anvendes komponenter med samme reservedelsnummer. Den nye komponent skal monteres på samme måde som den udskiftede.

NOTICE EXPLICATIVE DES SCHEMAS

Sur les schémas, les numéros de types sont indiquées pour les transistors et les circuits imprimés dans les cas où le numéro de type est univoque pour la disposition du composant dans un circuit - par example TR20/BC557B.

Si le numéro de position est suivi par un astérisque, il faut utiliser le numéro de la piece de rechange, étant donné qu'il dès lors d'un composant spécialement sélectionné - par example TR102*.

Système de coordonnées

Les plus grands circuits imprimés sont munis d'un système de coordonnées. Les composants de ces circuits imprimés portent un numéro de coordonnée sur le schéma qui indiquent dans quelle coordonnées ils sont placés sur le circuit imprimé (en caractères plus petit que ceux indiquent le numéro de position - par example B3).

Circuits de commande

Dans certains circuits de commande, l'état actif est indiqué par une représentation en lettres (Cr = Haut avec une bande CrO2). Si cette représentation en lettres est munie d'un trait de négation, cela signifie que l'état actif est bas (Cr = Bas avec une bande CrO2).

Measuring Conditions

All DC voltages are measured without signal relative to ground with voltmeter (inner resistance

DC voltages are stated in volts (V), ex.: 0.7 V.

AC voltages are measured relative to ground with oscilloscope or voltmeter with an input resistance of 1 MΩ. AC voltages are stated in millivolt (mV), ex.: 725 mV.

Signal paths are shown for AM (position MW), FM and for AF right channel. The tape recorder signal path in recording position is shown in right channel, and replay position is shown in left channel.

Mechanical switches are shown in neutral position.

Symbol for Safety Components



When replacing components with this symbol components with identical part numbers are to be used. The new component must be fitted in the same way as the one replaced.

ERLÄUTERUNGEN ZUM SCHALTBILD

Auf dem Schaltbild sind Typen-Nummern für Transistoren und IC's in den Fällen angegeben, in denen die Typen-Nummer für die Plazierung der Komponente in einem Schaltkreis eindeutig ist z.B. TR20/BC 557B.

Wenn auf die Positionsnummer ein Stern folgt, ist die Ersatzteilnummer zu benutzen, da diese Komponente speziell ausgewählt werden ist - z.B. TR102*.

Koordinatensystem

Die grössten Printplatten sind mit einem Koordinatensystem versehen. Die Komponenten auf diesen Printplatten sind auf dem Schaltbild mit einer Koordinatennummer versehen, die erzählt, in welcher Koordinate der Printplatte sie angebracht sind (kleinere Schrifttyp als die der Positionsnummer -z.B. B3).

Steuerschaltkreise

Bei gewissen Steuerschaltkreisen ist der aktive Zustand durch eine Buchstabenbezeichnung (Cr = High mit CrO2-Band) angegeben. Wenn die Bezeichnung mit einem Negationszeichen versehen ist, ist der aktive Zustand Low (Cr = Low mit CrO2-Band).

Connexions des fils

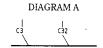
Les connexions de fils sur le schéma sont assemblées en »faisceaux«. Chaque fil est muni d'un code qui indique sa destination.

CONNEXION INTERNE SUR UN COTE DU SCHEMA



Connexions internes sur une page de schéma doits être indiquées par un numéro. L'angle du fil indique la direction dans laquelle l'autre bout du fil doit être trouvé.

CONNEXION VERS UN AUTRE COTE DU SCHEMA



Connexions vers une autre page de schéma doits être indiquées par un numéro, et par lettre du schéma indiquant la distination de la connexion.

Conditions de mesures

Toutes les tensions continues (DC) sont mesurées par rapport à la masse et à l'aide d'un voltmètre (résistance intérieure 10 MΩ).

Les tensions DC sont indiquées en volt (V) par example 0,7 V.

Les oscillogrammes et les tensions alternatives (AC) sont mesurées par rapport à la masse à l'aide d'un oscilloscope ou un voltmêtre ayant une impédance d'entrée de 1 MQ. Les tension AC sont indiquées en millivolt (mV) exemple 725 mV.

Les trajextoires d'un signal sont indiquées pour l'AM (position MW), FM, ainsi que pour le BF canal droit. La trajectoire du signal du magnétophone en position enregistrement est indiquée dans le canal droit, et la position lecture est indiquée dans le canal gauche.

Symbol des composants de sécurité

En remplacant un composant portant ce symbole, il faut utiliser les composants de même no. de référence. Le nouveau composant doit être de monté de la même manière que celui qu'il remplace.

Leitungsverbindungen

Die Leitungsverbindungen sind auf dem Schaltbild in »Bündeln« zusammengefaßt. Die einzelnen Leitungen sind mit Code-Bezeichnungen versehen. die angeben, wohin die Leitungen führen.

> INTERNE VERBINDUNGEN AUF EINER SCHALTBILDSEITE

Interne Verbindungen auf einer Schaltbildseite werden mit einem Nummer angeben. Die Biegung der Leitung zeigt in welcher Richtung das andere Ende der Leitung sich befindet.

VERBINDUNGEN AN EINE ANDERE SCHALTBILDSEITE



Die Verbindungen an eine andere Schaltbildseite werden mit einem Nummer, sowie Indikation des Schaltbildes an den die Verbindung geht, angeben.

Messbedingungen

Alle DC Spannungen sind ohne Signal, im Verhältnis zur Masse mit Voltmeter (innerer Widerstand 10 MΩ) gemessen.

DC Spannungen sind in Volt (V) angegeben, z.B.: 0,7

AC Spannungen sind im Verhältnis zur Masse mit Oszilloskop oder Voltmeter mit einem Eingangswiderstand von 1 MOhm gemessen. AC Spannungen sind in Millivolt (mV) angeben, z.B.: 725 mV.

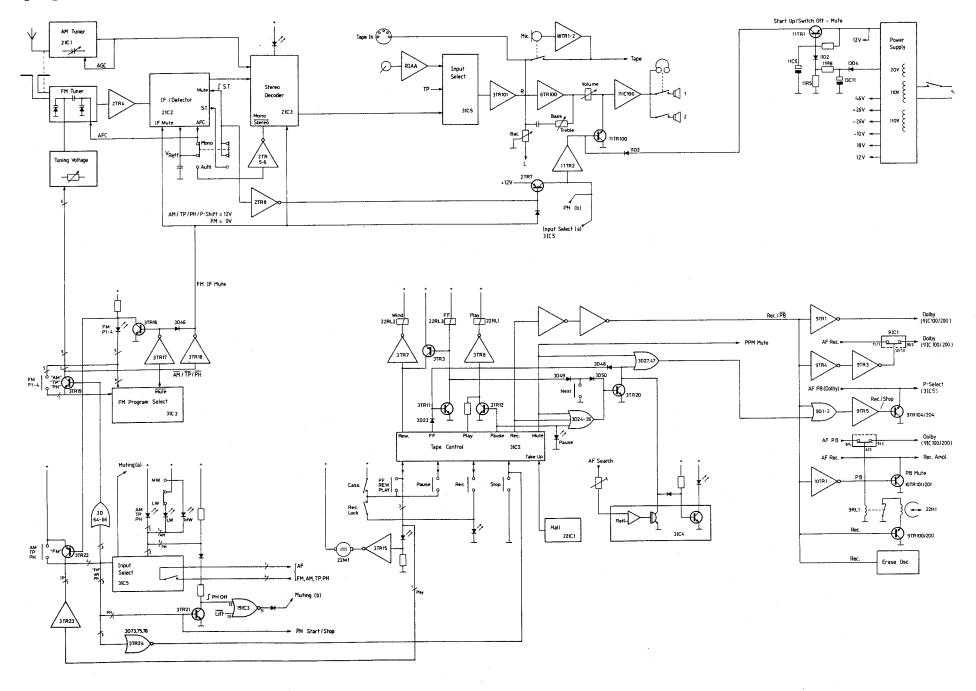
Signalwege für bzw. AM (Stellung MW), FM, Fernbedienung und für NF rechten Kanal sind gezeigt. Der Signalweg des Tonbandgeräts in Stellung Aufnahme ist im rechten Kanal gezeigt und Stellung Wiedergabe ist im linken Kanal gezeigt.

Mechanische Umschalter sind in neutraler Stellung gezeigt.

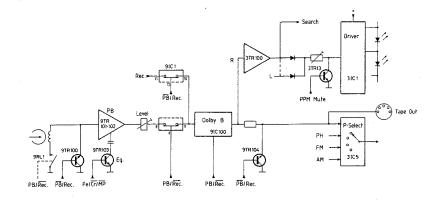
Symbol für Sicherheitskomponente



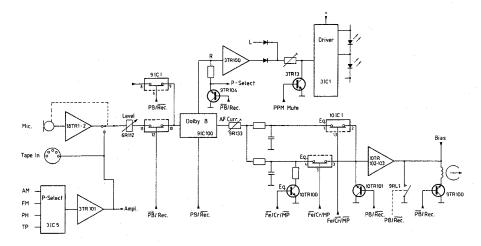
Bei der Auswechslung von Komponente mit diesem Symbol sind Komponente mit gleichen Teilnummer zu verwerden. Die neue Komponente ist in derselben Weise wie die ausgewechselte Komponente zu montieren.



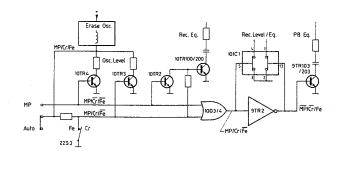
Play-Back



Record

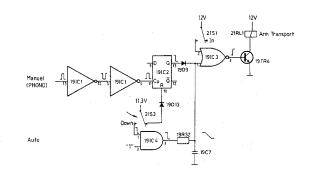


Tape Type Switch

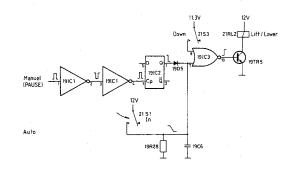


Tonearm, Transport IN

Tonearm, Transport Out



Tonearm, Lower



Tonearm, Lift

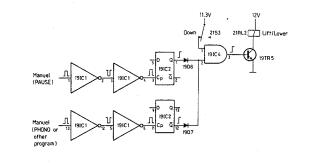
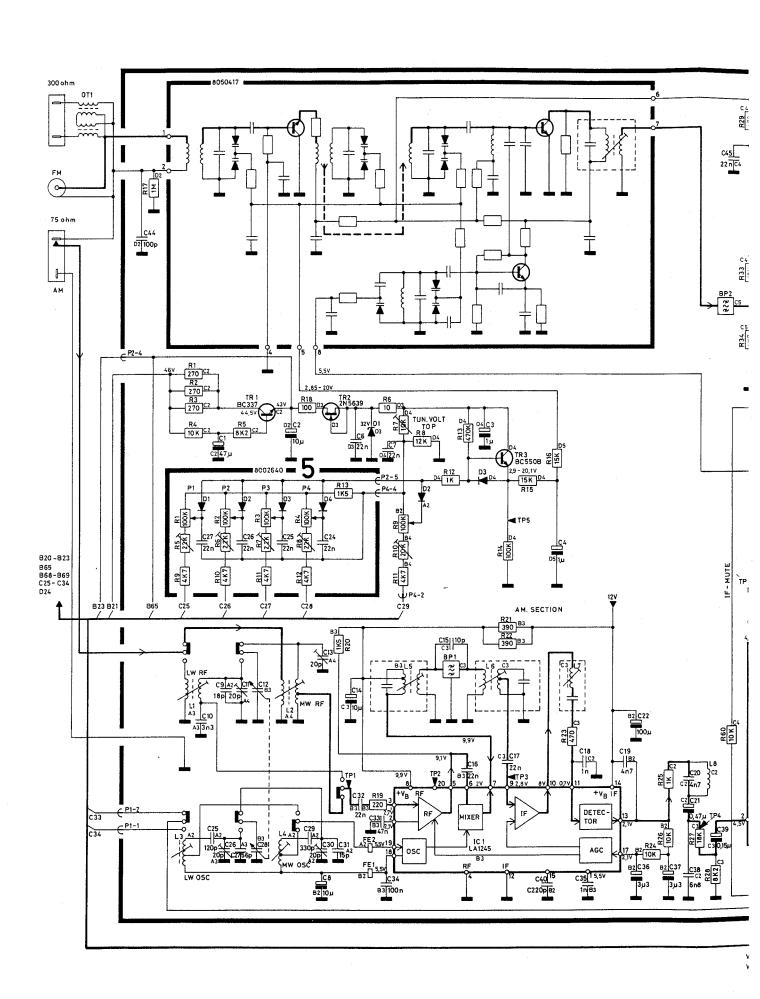
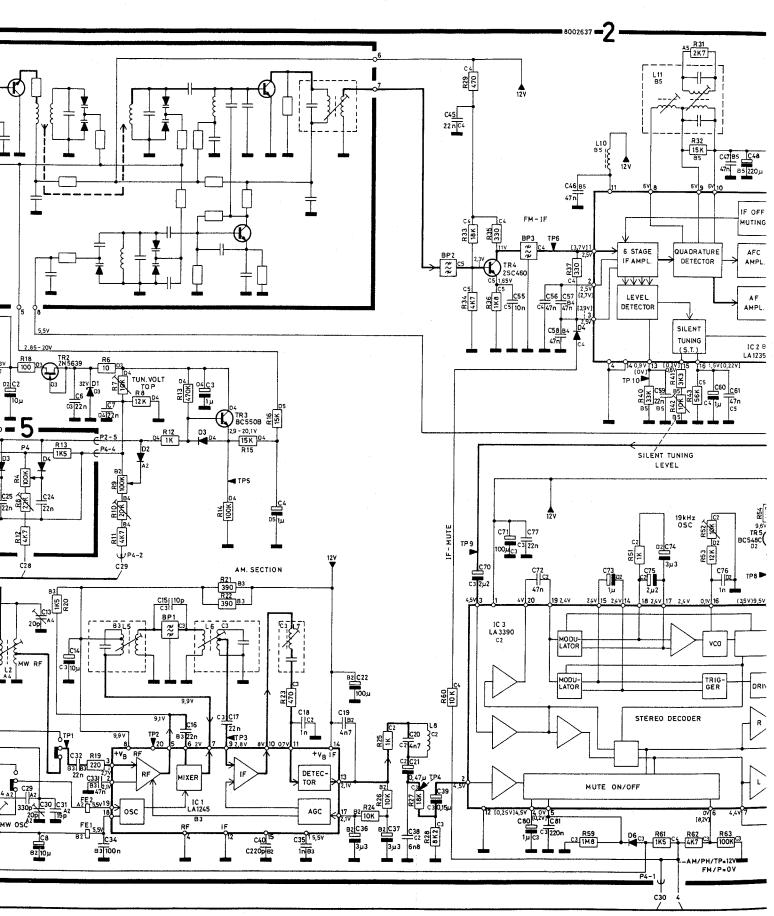


DIAGRAM A





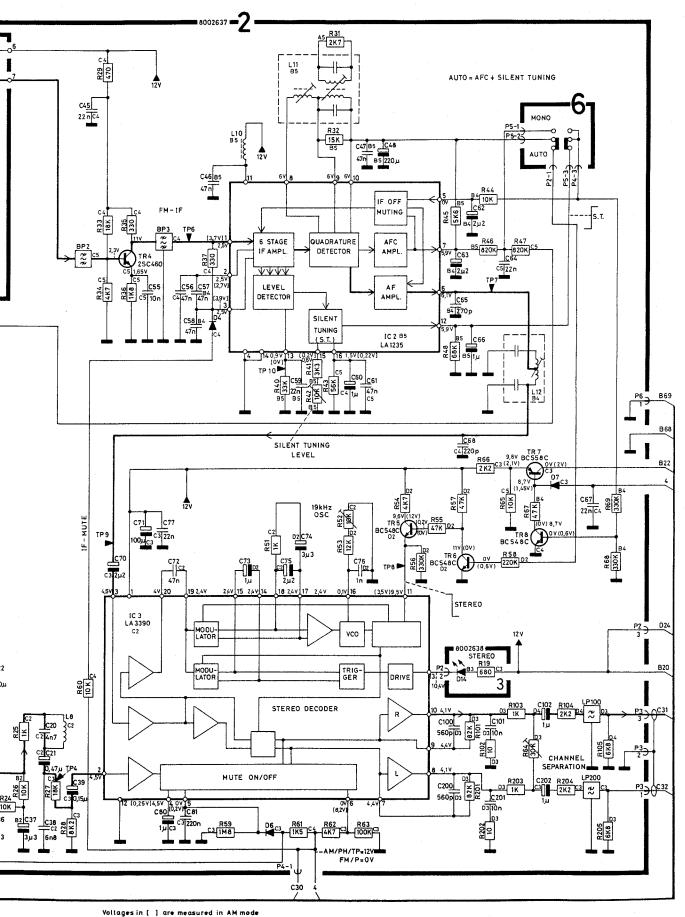
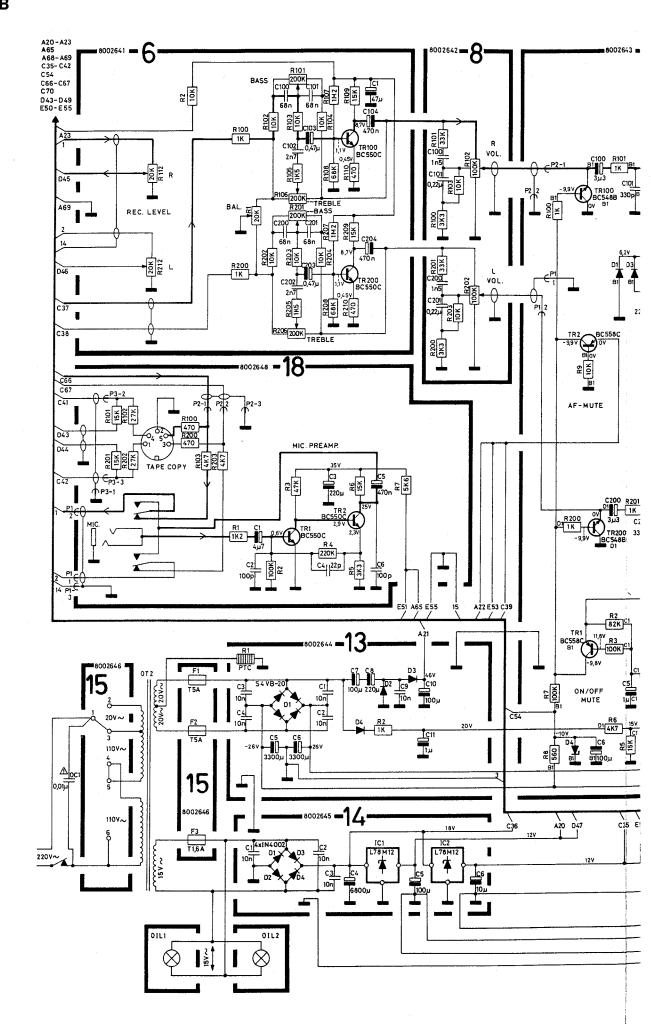
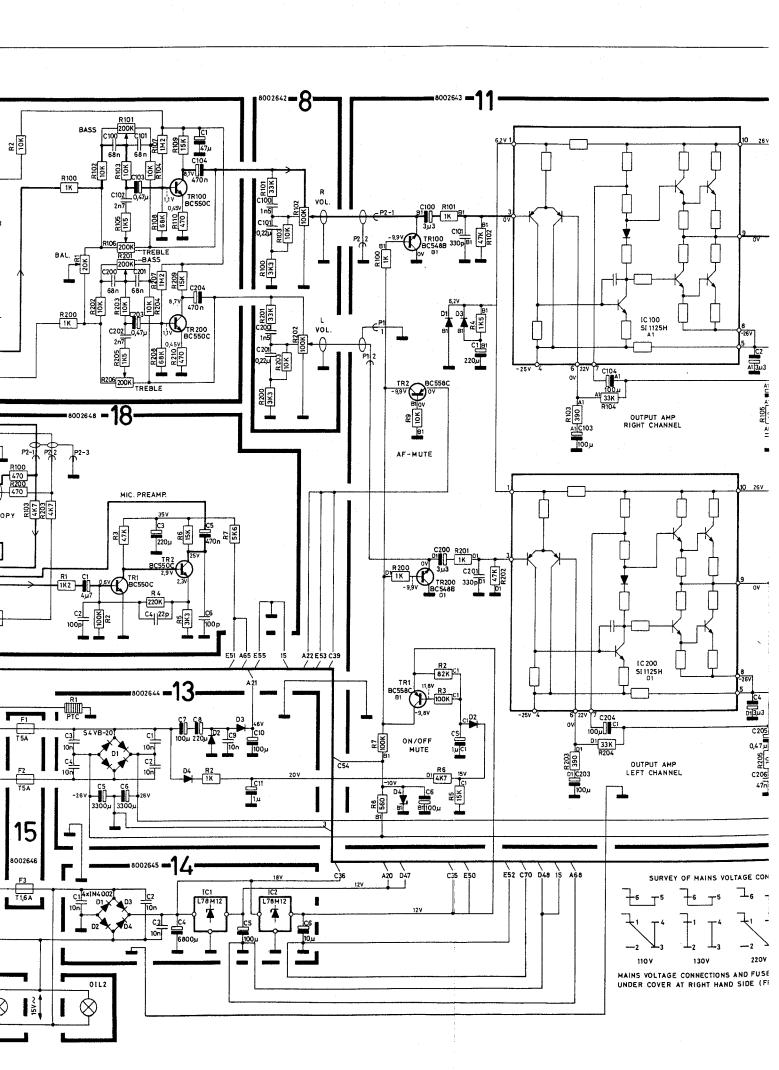


DIAGRAM B





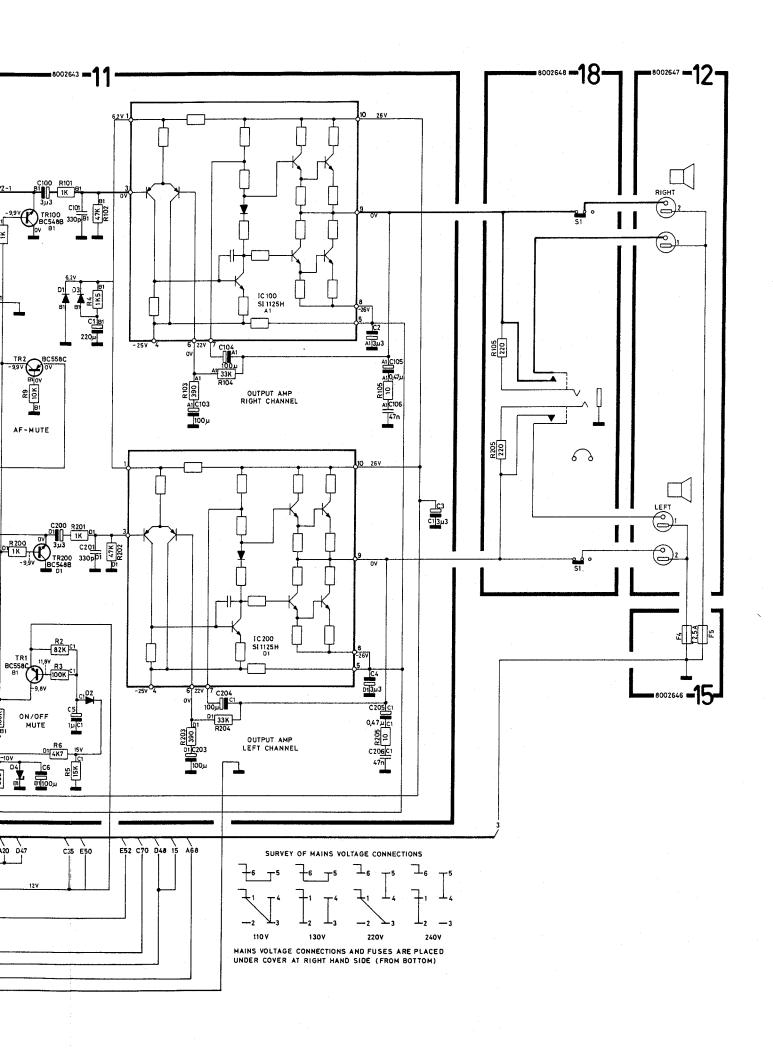
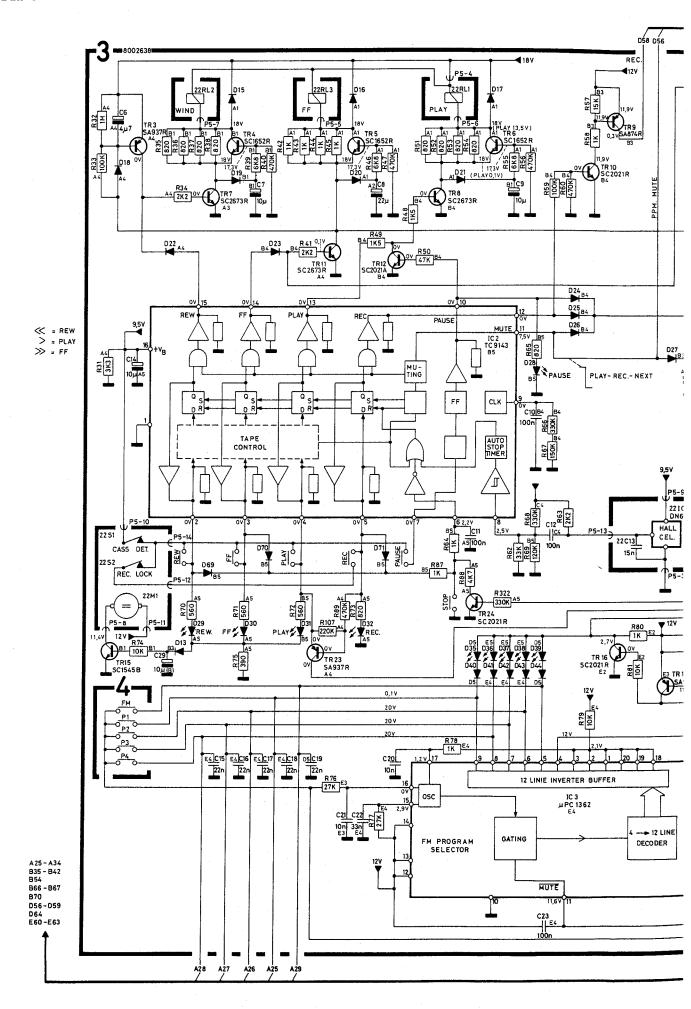
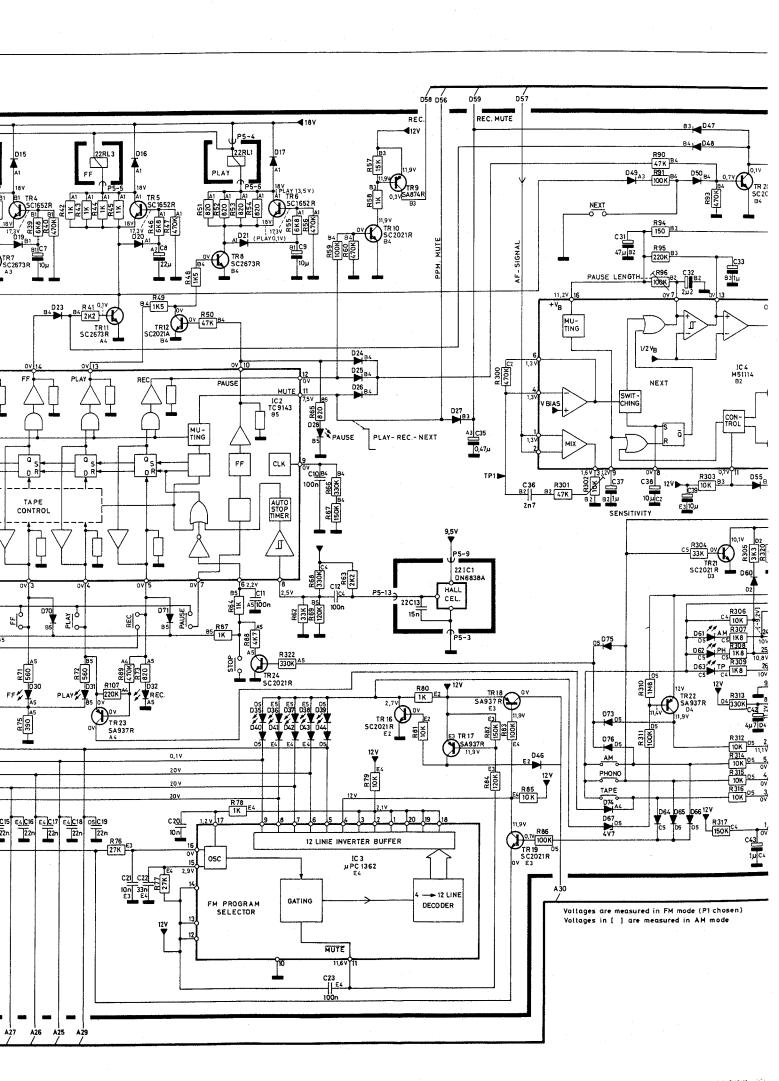


DIAGRAM C





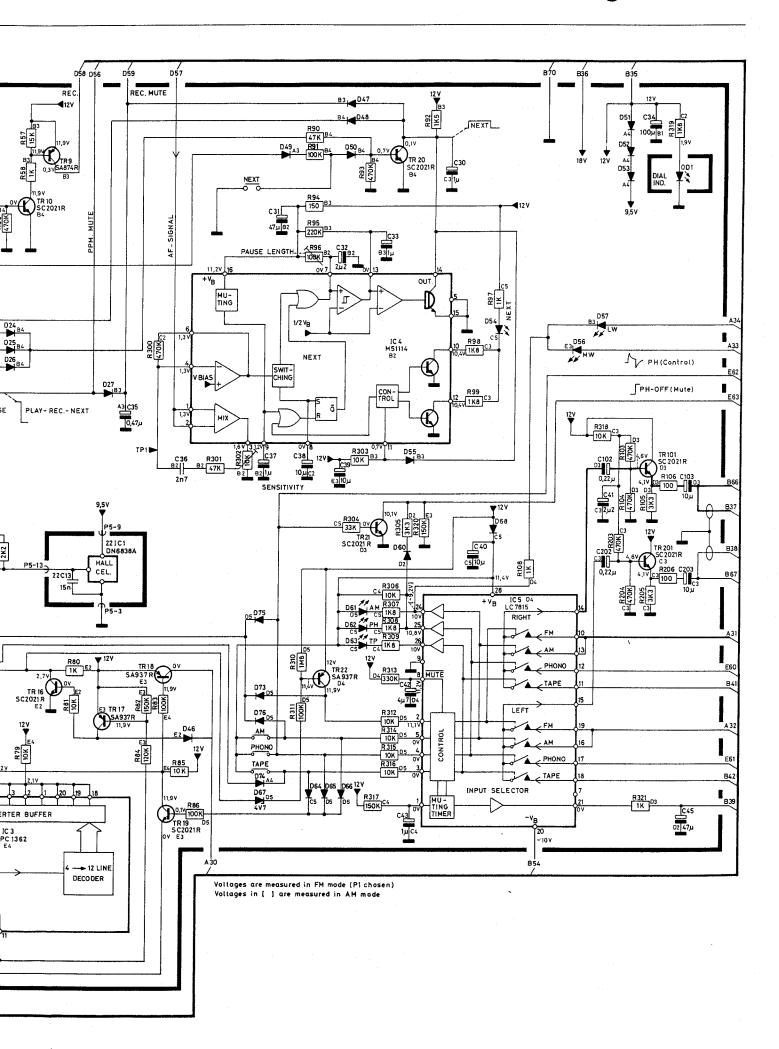


DIAGRAM D

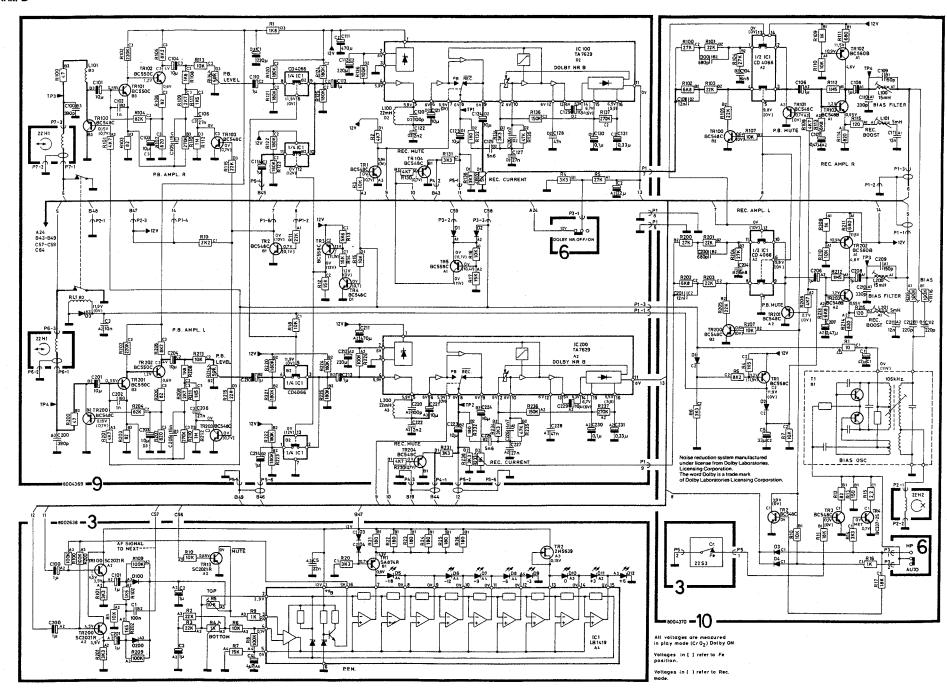
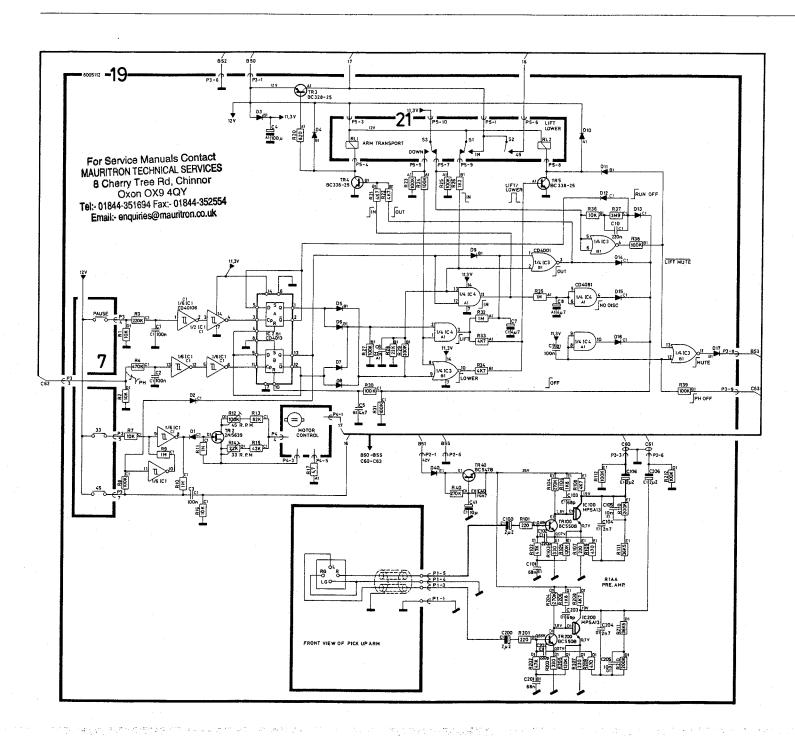


DIAGRAM E



SEMICONDUCTORS

17	19	20	21	24	48	
8	C • • • • • • • • • • • • • • • • • • •	E B	D • • • • • • • • • • • • • • • • • • •		€ C B	

Transistors

2TR1	8320295 17	C 2060 Q	3TR19	8320563	48	C2021 R
	20	BC 337	3TR20			
			3TR21			
2TR2	8320396 21	K246 BL				
	24	MPF 4392	3TR22	8320561	48	A937 R
	24	2N 5639				
			3TR24	8320563	48	C2021 R
2TR3	8320344 17	C1740 Q	· · · · · · · · · · · · · · · · · · ·			
	20	BC 550B	3TR25	8320561	48	A937 R
2TR4	8320459 17	C1675 K	3TR100	8320563	48	C2021 R
			3TR101			
2TR5	8320285 17	C2603 F				
2TR6	20	BC 548C	6TR100	8320458	17	C2603 F
					20	BC 550C
2TR7	8320398 17	A1115 F				
	20	BC 558C	9TR1	8320285	17	C2603 F
			9TR2		20	BC 548C
2TR8	8320285 17	C2603 F				
	20	BC 548C	9TR3	8320398		A1115 F
					20	BC 558C
3TR1	8320560 48	A874 R				
			9TR4	8320285		C2603 F
3TR2	8320396 21	K246 BL	 		20	BC 548C
	24	MPF 4392				
	24	2N 5639	9TR5	8320398		A1115 F
		1007.0			20	BC 558C
3TR3	8320561 48	A937 R	OTD100	0000005	47	00000 5
OTD 4	0000500 40	C1050 D	9TR100	8320285		C2603 F
3TR4	8320562 48	C1652 R			20	BC 548C
3TR5 3TR6			9TR101	8320458	17	C1344 E
3100	 		9TR102	0320430	20	BC 550C
3TR7	8320564 48	C2673 B	3111102		20	BO 3300
3TR8	0020004 40	0207311	9TR103	8320285	17	C2603 F
01110			9TR104	0020200	20	BC 548C
3TR9	8320560 48	A874 R				20 0 100
	3323333 40		10TR1	8320398	17	A1115 F
3TR10	8320563 48	C2021 R			20	BC 558C
3TR11	8320564 48	C2673 R	10TR2	8320285	17	C2603 F
			10TR3	·	20	BC 548C
3TR12	8320563 48	C2021 R				
3TR13			10TR4	8320295	17	D467 C
3TR15	8320565 48	C1545 B	10TR100	8320285	17	C2603 F
			10TR101	*	20	BC 548C
3TR16	8320563 48	C2021 R				
			10TR102	8320385	17	A836 E
3TR17	8320561 48	A937 R			20	BC560 B
3TR18	-					

17	19		20	24	101	102	1	05	121
8 C E	C B 6 E		E B B	G S D	15 9	14 8	5	O \$	20 11
125 28 15 2 12	129		133	209 ^	215 ^	217	(219	231
10TR103	8320108	17 20	C458 [BC548		19TR2	8320396	24 24	2N 5	
11TR1 11TR2	8320398	17 20	A733 P		19TR3	8320448	20	BC 3	28
, 11TR100	8320108	17	C2878	В	19TR4 19TR5	8320329	20	BC 3	38
18TR1	8320458	20	BC548 C1344		19TR40	8320097	20	BC 5	47B
18TR2		20	BC 550	 	19TR100	8320458	20	BC 5	50C
0104	0040570	404	1 4 40 4		1110100	2040050	100	01.44	0511
2IC1	8340576				11IC100	8340256			
2IC2	8340574	707	LA 123		14IC1 14IC2	8340583	105	L /8N	M12

IC's

2IC1	8340576 121 LA 1245	11IC100	8340256	129	SI-1125H
2IC2	8340574 101 LA 1235	14IC1	8340583	105	L 78M12
2102	0340374 101 LA 1233	14IC2	0040000	103	L 7014112
2IC3	8340575 121 LA 3390				
			8340221	102	CD 40106
3IC1	8340582 101 LB 1419			102	HEF 40106BP
3IC2	8340580 101 TC 9143	19IC2∆	8340176	102	CD 4013BCN
				102	MC14013BCP
3IC3	8340579 121 μPC 1362			102	HEF 4013BP
3IC4	8340581 133 M51144		8340167	102	CD 4001
				102	HEF 4001BP
3IC5∆	8340578 125 LC7815				
		19IC4∆	8340172	102	CD 4081BCN
9lC1∆	8340202 102 CD4066 BCN			102	MC14081BCP
	102 HEF 4066 BP			102	HEF 4081BP
	102 MC14066BCF	<u> </u>			
		19IC100	8340054	19	MPSA 13
9IC100	8340577 101 TA 7629				
10lC1∆	8340202 102 CD 4066BCN			· · · · · · · · · · · · · · · · · · ·	
	102 HEF 4066BP				
	102 MC14066BCP				
		_			
**************************************	the street of th				

 $[\]Delta$ betyder at statisk elektricitet kan ødelægge komponenten.

 $[\]Delta$ indicates that static electricity may destroy the component.

 $[\]Delta$ bedeutet, daß statische Elektrizität die Komponente zerstören kann.

[△] signifi que électricité statique peut detruire le composant.

Diodes

8330098 2 8330099 2	209 209 217 215 231	S 2076 1N 4148 SFD 184 1N 4148 SLP 265B gr	3D67 3D68-76	8300036	217 215 209 209	1N 4148 SFD 184 1N 4148 ZPD 4.7V BZX 79C4.7V
8300058 2 2 2 8330098 2 8330099 2	209 209 217 215 231	S 2076 1N 4148 SFD 184 1N 4148 SLP 265B gr		8300036	215 209 209	1N 4148 ZPD 4.7V
8330098 2 8330099 2	209 217 215 231	1N 4148 SFD 184 1N 4148 SLP 265B gr		8300036	209 209	ZPD 4.7V
8330098 2 8330099 2	209 217 215 231	1N 4148 SFD 184 1N 4148 SLP 265B gr		8300036	209	
8330098 2 8330099 2	217 215 231	SFD 184 1N 4148 SLP 265B gr		8300036	209	
8330098 2 8330099 2	215 231	1N 4148 SLP 265B gr	3D68-76			BZX 79C4.7V
8330098 2 8330099 2	231	SLP 265B gr	3D68-76		200	
8330099 2			3D68-76		209	BZX 83C4.7V
8330099 2			0000 10	8300058	209	S 2076
	231	01.0.1050				1N 4148
		OLF IDDK C				SFD 184
8330098 2		02. 10051				1N 4148
	231	SLP 265B gr				
			3D100	8300430	209	K 34A
8300023 2	209	DA 135E				
		1N 4002	5D1-4	8300058	209	S 2076
					209	1N 4148
8300058 2	209	S 2076				SFD 184
						1N 4148
						
			11D1	8300201	209	RD 6.2BD
						ZPD 6,2V
8300023 2	209	DA 135E				BZX 79C6,2V
			·			BZX 83C6,2V
8300058 2	209	S 2076	11D2-3	8300058	209	S 2076
2	209	1N 4148			209	1N 4148
2	217	SFD 184			217	SFD 184
2	215	1N 4148			215	1N 4148
8300099	21	SI P 165B r	1104	8300310	200	RD 10ERD
0000000 2		021 10051	1104	0000010		ZPD 10V
8300058 2	209	S 2076				BZX 83C10V
						BZX 79C10V
						DEX. 100101
			13D1	8300330		S4VB-20
						
8330099 2	31	SLP 165B r	13D2-4	8300023	209	DS 135E
			14D1-4		209	1N 4002
8300058 2	09	S 2076				
2	09	1N 4148	19D1-2	8300058	209	1N 4148
2	17	SFD 184			217	SFD 184
2	15	1N 4148			215	1N 4148
8300099 2	31 .	SI P 165B r	19D3	8300023	209	1N 4002
0000000 2.	01	<u> </u>	1000			114 4002
8300058 2	09	S 2076	19D4-17	8300058	209	1N 4148
		**************************************				SFD 184
						1N 4148
8330099 2	31	SLP 165B r				
	-		·			
	8300023 2 8300058 2 8300058 2 8300058 2 22 8300058 2 22 8300058 2 22 22 8300058 2	209 217 215 8300023 209 209 8300058 209 217 215 8300058 209 217 215 8330099 231 8300058 209 217 215 8330099 231 8300058 209 209 217 215 83100058 209 209 217 215	8300058 209 S 2076 209 1N 4148 217 SFD 184 215 1N 4148 8300023 209 DA 135E 209 1N 4002 8300058 209 S 2076 209 1N 4148 217 SFD 184 215 1N 4148 8300058 209 S 2076 209 1N 4148 217 SFD 184 215 1N 4148 8330099 231 SLP 165B r 8300058 209 S 2076 209 1N 4148 217 SFD 184 215 1N 4148 217 SFD 184 215 1N 4148 8300099 231 SLP 165B r 8300058 209 S 2076 209 1N 4148 217 SFD 184 215 1N 4148 8300099 231 SLP 165B r	209 1N 4148 217 SFD 184 215 1N 4148 215 1N 4148 216 209 DA 135E 209 1N 4002 8300058 209 S 2076 209 1N 4148 217 SFD 184 215 1N 4148 8300099 231 SLP 165B r 11D4 8300058 209 S 2076 209 1N 4148 217 SFD 184 215 1N 4148 13D1 8330099 231 SLP 165B r 13D2-4 14D1-4 8300058 209 S 2076 209 1N 4148 217 SFD 184 215 1N 4148 13D1 8330099 231 SLP 165B r 13D2-4 14D1-4 8300058 209 S 2076 209 1N 4148 217 SFD 184 215 1N 4148 8300058 209 S 2076 209 1N 4148 217 SFD 184 215 1N 4148 217 SFD 184 215 1N 4148	8300058 209 S 2076 209 1N 4148 217 SFD 184 215 1N 4148 11D1 8300201 8300023 209 DA 135E 209 1N 4002 8300058 209 S 2076 209 1N 4148 217 SFD 184 215 1N 4148 8300058 209 S 2076 209 1N 4148 217 SFD 184 215 1N 4148 13D1 8300330 8330099 231 SLP 165B r 13D2-4 8300023 14D1-4 8300058 209 S 2076 209 1N 4148 217 SFD 184 215 1N 4148 19D1-2 8300058 217 SFD 184 215 1N 4148 8300058 209 S 2076 209 1N 4148 217 SFD 184 215 1N 4148 8300058 209 S 2076 209 1N 4148 217 SFD 184 215 1N 4148 217 SFD 184 215 1N 4148	8300058 209 S 2076 209 1N 4148 215 SFD 184 215 1N 4148 215 1N 4148 215 1N 4002 8300023 209 DA 135E 209 209 1N 4002 8300058 209 S 2076 209 1N 4148 215 1N 4148 209 217 SFD 184 215 1N 4148 215 8300099 231 SLP 165B r 209 209 1N 4148 215 1N 4148 217 215 1N 4148 217 215 1N 4148 217 217 SFD 184 217 215 1N 4148 217 215 1N 4148 217 217 SFD 184 215 1N 4148

LIST OF ELECTRICAL PARTS

Resistors not mentioned are standard 5% 1/4 W

AM-FM	IF	&	MPX	8002637-
PCR2				

0C1	4130081	10 nF 20% 125V	0T1	8020141	Aerial transformer
OIL1	8230048	18V/60 mA	0T2	8013280	Mains transformer
0IL2	8230048	18V/60 mA	V	0010200	manio transformer
		101700 1111			
R7	5370248	10 kΩ 20%	R42	5370250	10 kΩ 20%
R10	5370251	20 kΩ 20%	R52	5370248	10 kΩ 20%
R11	5020653	4.7 kΩ 1% 1/4W	R64	5370249	30 kΩ 20%

C1	4200144	47 µF 50V	C39	4200475	0.15 µF 50V
C2	4200487	10 μF 500V	C40	4010021	220 pF 10% 100V
C3	4200426	1 μF 50V	C44	4003128	100 pF 5% 63V
C4	4200426	1 μF 50V	C45	4010060	22 nF -20+80% 40V
C6	4010060	22 nF -20+80% 40V	C46	4030015	47 nF -20+80% 16V
C7	4010060	22 nF -20+80% 40V	C47	4030015	47 nF -20+80% 16V
C8	4200431	10 μF 16V	C48	4200440	220 μF 10V
C9	4000081	18 pF 5% 63V	C55	4010041	10 µF -20+80% 40V
C10	4100033	3.3 nF 5% 63V	C56	4030015	47 nF -20+80% 16V
C11	4340019	20 pF	C57	4030015	47 nF -20+80% 16V
C12	4310016	2x335 pF	C58	4030015	47 nF -20+80% 16V
C13 C14	4340019	20 pF 10 µF 16V	C59 C60	4010060 4200426	22 nF -20+80% 40V
C14 C15	4200431 4000016	10 pF 2% 63V	C60 C61	4200426	1 μF 50V 47 nF -20+80% 16V
C15	4010060	22 nF -20+80% 40V	C62	4200423	2.2 µF 50V
C17	4010060	22 nF -20+80% 40V	C63	4200423	2.2 µF 50V 2.2 µF 50V
C18	4010007	1 nF 10% 100V	C64	4010060	22 nF -20+80% 40V
C19	4010063	4.7 nF 10% 63V	C65	4010081	270 pF 10% 100V
C20	4010063	4.7 nF 10% 63V	C66	4200426	1 µF 50V
C21	4200476	0.47 µF 50V	C67	4010060	22 nF -20%80% 40V
C22	4200438	100 µF 16V	C68	4010021	220 pF 10% 100V
C25	4101003	120 pF 5% 63V	C70	4200423	2.2 µF 50V
C26	4340019	20 pF	C71	4200438	100 µF 16V
C27	4003124	56 pF 2% 63V	C72	4030015	47 nF -20+80% 16V
C28	4310016	2x335 pF	C73	4200426	1 µF 50V
C29	4101009	330 pF 5% 63V	C74	4200485	3.3 µF 50V
C30	4340019	20 pF	C75	4200423	2.2 µF 50V
C31	4000049	15 pF 2% 63V	C76	4101019	1 nF 5% 63V
C32	4010060	22 nF -20+80% 40V	C77	4010060	22 nF -20+80% 40V
C33	4030015	47 nF -20+80% 16V	C80	4200426	1 μF 50V
C34	4030010	0.1 μF -20+100% 16V	C81	4130186	220 nF 20% 125V
C35	4010027	1 nF 10% 100V	C100	4010064	560 pF 10% 63V
C36 C37	4200485	3.3 µF 50V	C101	4130172	10 nF 10% 63V
	4200485	3.3 µF 50V	C102	4200426	1 μF 50V
BP1	8030043	10.7 MHz	LP100	8030041	19/38 kHz
BP2	8030044	10.7 MHz	D1 100		10,00 1012
BP3	8030015	468 kHz			
					
L1	8020346	LW aerial	L7	8020350	468 kHz
L2	8020345	MW aerial	L8	8020270	LP
L3	8020344	LW Osc.	L10	8020269	2.2 mH
L4	8020343	MW Osc.	L11	8030040	FM Det.
L5	8020347	468 kHz	L12	8030042	114 kHz
L6	8020348	468 kHz			
FE1	6710001	Core beads			
FE2	6710001	Core beads			
					· · · · · · · · · · · · · · · · · · ·
P1	7220367	Connector 2 pol.			
P2	7220371	Connector 5 pol.			
P2 P3	7220371 7220313	Connector 5 pol. Connector 3 pol.			
P2	7220371	Connector 5 pol.			

Control Circuit 8002638 - PCB3	R4 R5	5370252 5370042	1 kΩ 20% 10 kΩ 20%	R76 R302	5370246 5370042	100 kΩ 20% 10 kΩ 20%
	C1	4120170	100 nF 20% 63V	C23	4130179	100 -E 200/ C2V
	C1 C2	4130179 4200574	1 µF 50V	C23	4200577	100 nF 20% 63V 10 µF 16V
	C3	4200574	1 µF 50V	C30	4200574	1 µF 50V
	C4	4200576	4.7 25V	C31	4200580	47 μ F 16V
	C5	4010060	22 nF -20+80% 40V	C32	4200575	2.2 μF 50V
	C6	4200576	4.7 μF 25V	C33	4200574	1 μ F 50V
	C7	4200578	10 μF 25V	C34	4200581	100 µF 16V
	C8	4200579	22 µF 25V	C35	4200573	0.47 μF 50V
	C9 C10	4200578	10 μF 25V	C37 C38	4200574 4200577	1 μF 50V 10 μF 16V
	C10	4130179 4130179	100 nF 20% 63V 100 nF 20% 63V	C39	4200577	10 µF 16V
	C12	4130179	100 nF 20% 63V	C40	4200577	10 μF 16V
	C14	4200577	10 μF 16V	C41	4200575	2.2 µF 50V
	C15	4010060	22 nF -20+80% 40V	C42	4200576	4.7 μF 25V
	C16	4010060	22 nF -20+80% 40V	C43	4200574	1 μF 50V
	C17	4010060	22 nF -20+80% 40V	C45	4200580	47 μF 16V
	C18	4010060	22 nF -20+80% 40V	C100	4200574	1 μF 50V
	C19	4010060	22 nF -20+80% 40V	C101 C102	4200574	1 µF 50V
	C20 C21	4010041 4010041	10 nF -20+80% 40V 10 nF -20+80% 40V	C102 C103	4200572 4200577	0.22 μF 50V 10 μF 16V
	C22	4130176	33 nF 20% 63V	C103	4200011	10 μ1. 10 γ
	P5	7220372	Connector 14 pol.			
FM Preset 8002640 - PCB5			· · · · · · · · · · · · · · · · · · ·			
	R1	5300125	100 kΩ	R7	5370040	22 kΩ 20%
	R2	5300125	100 kΩ	R8	5370040	22 kΩ 20%
	R3	5300125	100 kΩ	R9	5020653	4.7 kΩ 1% 1/4W
	R4 R5	5300125 5370040	100 kΩ 22 kΩ 20%	R10 R11	5020653 5020653	4.7 kΩ 1% 1/4W 4.7 kΩ 1% 1/4W
	R6	5370040	22 kΩ 20%	R12	5020653	4.7 kΩ 1% 1/4W
	C24 C25	4010060 4010060	22 nF -20+80% 40V 22 nF -20+80% 40V	C26 C27	4010060 4010060	22 nF -20+80% 40V 22 nF -20+80% 40V
Secondary Controls 8002641 -	D1	5010115	00 LO DAL ANCE	D100	E010110	200 kΩ TREBLE
PCB6	R1 R101	5310115 5310116	20 kΩ BALANCE 200 kΩ BASS	R106 R112	5310116 5310014	200 kΩ TREBLE 200 kΩ REC LEVEL
	C1	4200144	47 μ F 50 V	C103	4200573	0.47 µF 50V
	C100	4130264	68 nF 10% 63V	C104	4200573	0.47 µF 50V
	C101 C102	4130264 4100076	68 nF 10% 63V 2.7 nF 2.5% 63V	C105	4003128	100 pF 5% 63V
Volume Control 8002642 -	D100	5010115	+00 LO MOLIBUEN	C100	4010007	1.5 -E 100/ C2V
PCB8	R102	5310117	100 kΩ VOLUMEN	C100 C101	4010067 4130215	1.5 nF 10% 63V 220 nF 20% 63V
PB-Amplifier & Dolby Processor 8004369 - PCB9	R114	5370018	50 kΩ 20%	R133	5370247	5 kΩ 20% 1/4W
301 000 1000				R134	5020265	3.3 kΩ 2% 1/4W
	C1	4200440	220 µF 10V	C114	4200426	1 μF 50V
	C2	4200488	22 µF 16V	C120	4003136	100 pF 2% 63V
	C3	4010041	10 nF -20+80% 40V	C121	4200431	10 µF 16V
	C100	4010037	390 pF 10% 100V	C221	4200577	10 µF 16V
	C101	4200431	10 µF 16V	C122 C123	4100029 4200431	2.2 nF 5% 63V 10 µF 16V
	C102 C103	4010027 4200431	1 nF 10% 100V 10 µF 16V	C123 C124	4200431	10 μF 16V 10 μF 16V
	C103	4200431	10 μF 16V 10 μF 16V	C124 C125	4100049	5.6 μF 1% 63V
	C105	4130173	15 nF 10% 63V	C126	4100059	4.7 nF 2.5% 63V
	C106	4130175	27 nF 10% 63V	C127	4130180	27 nF 1% 63V
	C110	4200426	1 μF 50V	C128	4130178	47 nF 10% 63V
	C111	4200444	470 μF 16V	C129	4200431	10 μF 16V
	C112 C113	4200440 4200426	220 μF 16V 1 μF 50V	C130 C131	4130179 4130187	100 nF 20% 63V 330 nF 20% 250V

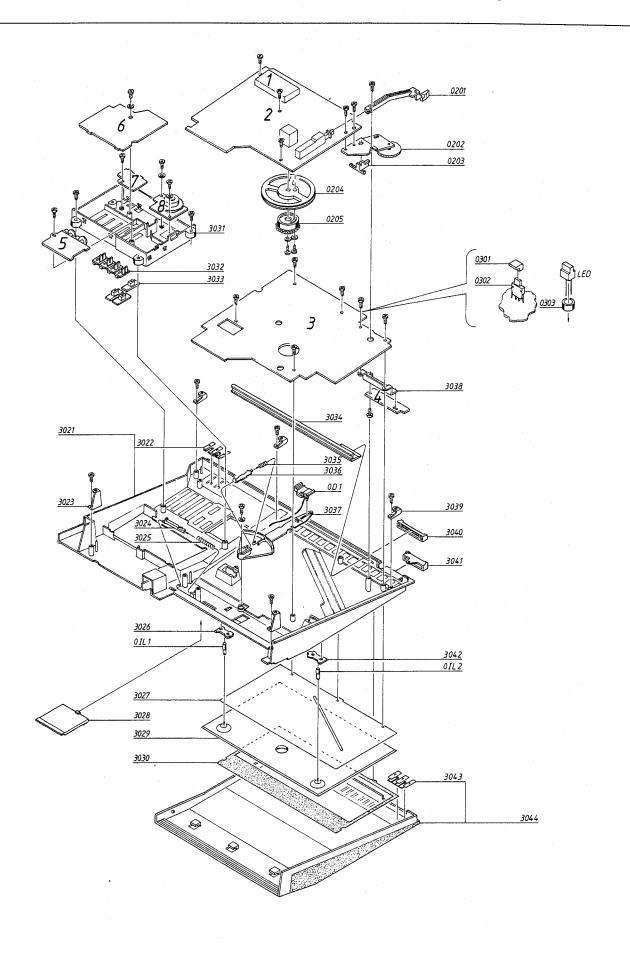
	L1	7600075	Reed-relay	L100 L101	8020272 8020271	22 mH 5.2 mH
	 P1	7220369	Connector 9 pol.	P5	7220318	Connector 6 pol.
	P2	7220313	Connector 3 pol.	P6	7220285	Connector 3 pol.
	P3	7220313	Connector 3 pol.	P7	7220285	Connector 3 pol.
	P4	7220313	Connector 3 pol.	•	1220200	connector 5 por.
Record Ampl. & Bias Osc.						
8004370 - PCB10	R1 R116	5020489 5370130	10 Ω Safety res. 100 kΩ20%			

	C1	4200483	47 μF 16V	C107	4200476	0.47 µF 50V
	C5	4200145	33 µF 16V	C108	4200426	1 μF 50V
	C100 C101	4010031	680 pF 10% 100V 12 nF 10% 63V	C110 C111	4010062 4130174	330 pF 10% 100V 12 nF 10% 63V
	C101	4130174 4200426	12 nr 10% 63 v 1 µF 50V	C111	4010021	220 pF 10% 100V
		4200420	I pr 30v	C112	4010021	220 pr 10% 100 v
	T1	8052214	Bias Osc.	P1	7220313	Connector 3 pol.
	L100	8020358	15 mH	P2	7220312	Connector 2 pol.
	L101	8020359	5 mH	P3	7220312	Connector 2 pol.
Power Amplifier 8002643 -		·····				
PCB11	R103	5020652	390 kΩ			
CDII	R105	5011000	10 Ω			
	C1	4000440	990 F 10V	C101	4010000	999 5199/1997
	C1 C2	4200440	220 µF 10V	C101	4010062	330 pF 10% 100V
	C2	4200429 4200429	3.3 μF 50V 3.3 μF 50V	C102 C103	4200432 4200438	10 μF 35V 100 μF 10V
	C4	4200429	3.3 µF 50V	C103	4200438	100 μF 10V 100 μF 35V
	C5	4200423	4.7 μF 25V	C104	4130179	100 pF 33V 100 nF 20% 63V
	C6	4200438	100 μF 10V	C106	4130179	100 nF 20% 63V
	C100	4200429	3.3 µF 50V			
	P1 P2	7220312 7220312	Connector 2 pol. Connector 2 pol.			
Power Supply 2x26V 8002644 -						
PCB13	R1	5230010	10 Ω PTC			
	C1	4010091	10 nF -20+80% 100V	C7	4200439	100 µF 50V
	C2	4010091	10 nF -20+80% 100V	C8	4200442	220 µF 35V
	C3	4010091	10 nF -20+80% 100V	C9	4010091	10 nF -20+80% 100
	C4	4010091	10 nF -20+80% 100V	C10	4200439	100 µF 50V
	C5	4200447	3300 µF 50V	C11	4200146	3.3 µF 50V
	C6	4200447	3300 µF 50V			
Power Supply 12V 8002645 - CB14	C1	4010091	10 nF -20+80% 100V	C4	4200110	6800 µF 25V
OD14	C2	4010091	10 nF -20+80% 100V	C5	4200110	100 μF 16V
	C3	4010091	10 nF -20+80% 100V	C6	4200431	10 μF 16V
uses Board 8002646 - PCB15	To-1	6600000	5.A. alama 0507/ 700	TC 4	6600000	0 E A -1 - 0 E 6 T 7 T 7 C
	F1	6600038	5A-slow 250V IEC	F4 F5	6600020	2.5A-slow 250V IEC
	F2	6600038	5A-slow 250V IEC	гэ	6600020	2.5A-slow 250V IEC
r	F3	6600022	1.6A-slow 250V IEC			
lic. Ampl. & Phones etc. 002648 - PCB18	R105	5011017	220 Ω 1/2W			
	C1	4200486	4.7 μ F 50 V	C4	4000026	22 pF 2% 63V
	C2	4003136	100 pF 2% 63V	C5	4200476	0.47 50V
	C3	4200443	220 µF 50V	C6	4003136	100 pF 2% 63V
	P1	7220313	Connector 3 pol.			
	P2	7220285	Connector 3 pol.			
	P3	7220283	Connector 3 pol.			
	ro	1440483	Connector 5 por			

Phono Control Circuit & RIAA Amplifier 8005112 - PCB19

R12	5370128	100 kΩ 20%	R17	5000085	4.7 Ω 10% 1/2W
R14	5370068	22 kΩ 20%	R110	5020456	200 kΩ 1% 1/4 W
R15	5020132	43.2 kΩ 1% 1/4W	R111	5020075	36.5 kΩ 1% 1/4W
 C1	4130179	100 nF 20% 63V	C40	4010063	4.7 nF 10% 63V
C2	4130179	100 nF 20% 63V	C41	4201081	10 µF 63V
C3	4130179	100 nF 20% 63V	C100	4200423	2.2 μF 50V
C4	4200461	100 μF 25V	C101	4130264	68 nF 10% 63V
C5	4010063	4.7 nF 10% 63V	C102	4000165	220 pF 5% 63V
C6	4130060	22 nF 10% 63V	C103	4000091	68 pF 5% 63V
C7	4200477	4.7 µF 25V	C104	4010065	2.7 nF 10% 63V
C8	4200477	4.7 µF 25V	C105	4130172	10 nF 10% 63V
C10	4130215	220 nF 20% 63V	C106	4200423	2.2 µF 50V
P1	7220114	Connector 5/4 pol.	P4	7220114	Connector 5/4 pol.
P2	7220145	Connector 6/5 pol.	P5	7220182	Connector 10/9 pol
P3	7220144	Connector 9/8 pol.	-		

22C13 4010060 22 nF -20+80% 40V



Radiodel Radio Part

0D1 0IL1 0IL2	8230048	LED f/skalaviser Skalalys Skalalys	LED f/dial pointer Dial light Dial light	-
01Modu	l 8050417	FM-tuner	FM front end	
0201	2775954	PCB - AM/FM/MPX Knap LW	PCB - AM/FM/MPX Button LW	
0202 0203		Skalatræk Styr f/skalasnor	Dial drive Guide f/dial cord	
0204	2724071	-	Wheel	
0205		Tandhjul	Gear-wheel	
		LW-MW omskifter	Switch LW-MW	
		Fjeder f/skalasnor Skalasnor	Spring f/dial cord Dial cord	
03Modul	8002638	PCB - styrekredsløb	PCB - Control circuit	
0301		Knap f/kontakt	Button f/switch	
0302 0303		Kontakt Afstandsstykke	Switch Spacer	
0303		PCB-skærm	PCB-screening	
04Modul		PCB - P1-P4	PCB - P1-P4	
	7400280	Kontakt	Switch	
05Modul	8002640	PCB - FM preset	PCB - FM preset	
06Modul		PCB - Sek. betjening Omskifter DOLBY/METAL/	PCB - Sec. control	
	7400289	MONO	Switch DOLBY/METAL/ MONO	
	2751000	Medbringer f/skydepotentio- meter	Catch f/slide potentiometer	
07Modul		PCB - Pladespiller betj. Kontakt	PCB - Record player control Switch	
08Modul		PCB - Volumenkontrol Tandhjul f/volumen	PCB - Volume Gear-wheel f/volume	
3021		Betjeningspanel	Operating panel	
3022		Knapsæt	Set of buttons	
3023 3024	2542632 3034063	Vinkel Låsestift	Bracket Locking ping	
3025	2818078		Spring	
3026	6140043		PCB	
3027 3028		Skalabaggrund Dæksel f/preset	Dial back Cover f/preset	
3029		Skalapanel	Dial panel	
3030		Afmaskningsramme	Frame	
3031	3168386		Housing	
3032 3033		Knap f/potentiometer Knap f/omskifter	Slide f/potentiometer Slide f/switch	
3034		Skyder f/volumen	Slide f/volume	
3035	2818055	Fjeder	Spring	
3036	2530477	Vinkel Skalaviser	Bracket Dial pointer	
3037 3038	2542633		Dial pointer Bracket	
3039	2542631	Vinkel	Bracket	
3040		Knap f/volumen	Knob f/volume	
3041 3042	3152346 6141043	•	Guide PCB	
3042	2775959		Set of buttons	
3044	3430274	•	Panel	

Chassis

	ı		Bang&Olufsen
09Modul	8004369	PCB - Forforst. og Dolby	PCB - Pre-amplifier & Dolby
10Modul	8004370	PCB - Optageforst. og Bias	Osc.PCB - Rec. ampl. & Bias osc.
11Modul	3358194	PCB - Udgangsforstærker Køleprofil Vinekl f/opspænding	PCB - Power amplifier Heat-zink Bracket f/assembling
12Modul		PCB - Højttalerstikdåser Stikdåse	PCB - Loudspeaker sockets Socket
13Modul	8002644	PCB - 2 x 26V	PCB - 2 x 26V
14Modul	8002645	PCB - 12 V	PCB - 12 V
15Modul		PCB - Sikringer Sikringsholder	PCB - Fuses Holder f/fuse
18Modul	7210380 7210379 7210343 7400288	PCB - Mic./Jack stikdåser Stikdåse, Mic. Stikdåse, PHONES Stikdåse 5 pol. DIN Omskifter, HT Knap f/HT-omskifter	PCB - Mic./Jack-sockets Socket, Mic. Socket, PHONES Socket 5 pol. DIN Switch, speakers Button f/Speakers-switch
3051 3052 3053 3054 3055 3056 3057 3058 3059 3060 3061	2530475 2530476 7210426 3413006 3430240 2382000 8002193 2938182	Vinkel, venstre Ophæng, venstre Ophæng, højre Stikdåse panel Kabinetside, grå Dæksel Fingermøtrik	Cover Bracket, left Bracket, left Bracket, right Socket panel Cabinet side, grey Cover Milled nut PCB Nut f/Jack-socket Nut f/Jack-socket
3062 3063 3064 3065 3066	2542627 2530473 2542630 2530474	Vinkel, højre Vinkel Vinkel Vinkel Knap ON-OFF	Bracket, right Bracket Bracket Bracket Button ON-OFF

Holder

Holder

Bushing

Bottom

Lock

Insulating piece Insulating piece

Cabinet side, grey

Cabinet front, grey

Cover f/fuses

Mains switch

3152396 Holder

3151220 Holder

2641061 Bøsning

2641062 Lås

3430304 Bund

3950296 Isolationsstykke

3170222 Isolationsstykke

3413002 Kabinetside, grå

3164523 Dæksel f/sikringer

3413007 Kabinet front, grå

7450075 Netafbryder

3067 3068

3069 3070

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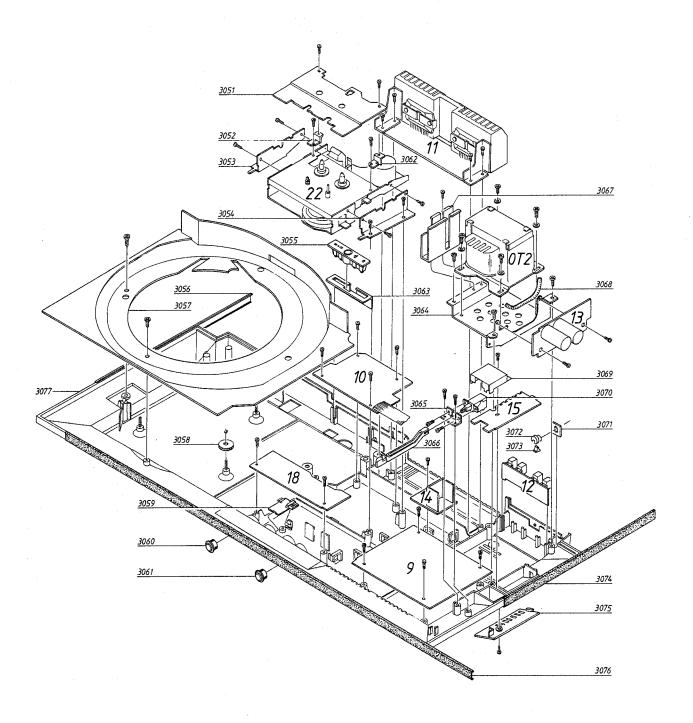
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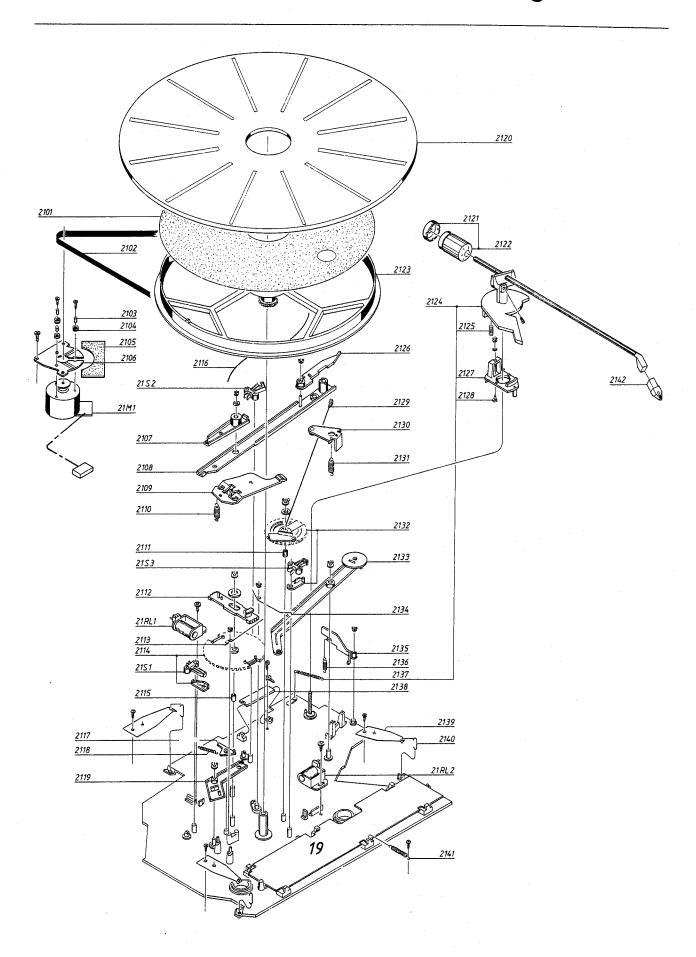
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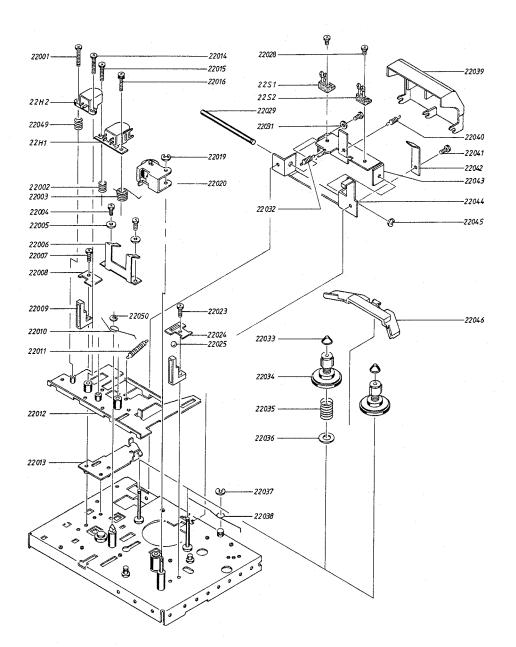
Pladespiller, svingchassis Record Player, Floating Chassis

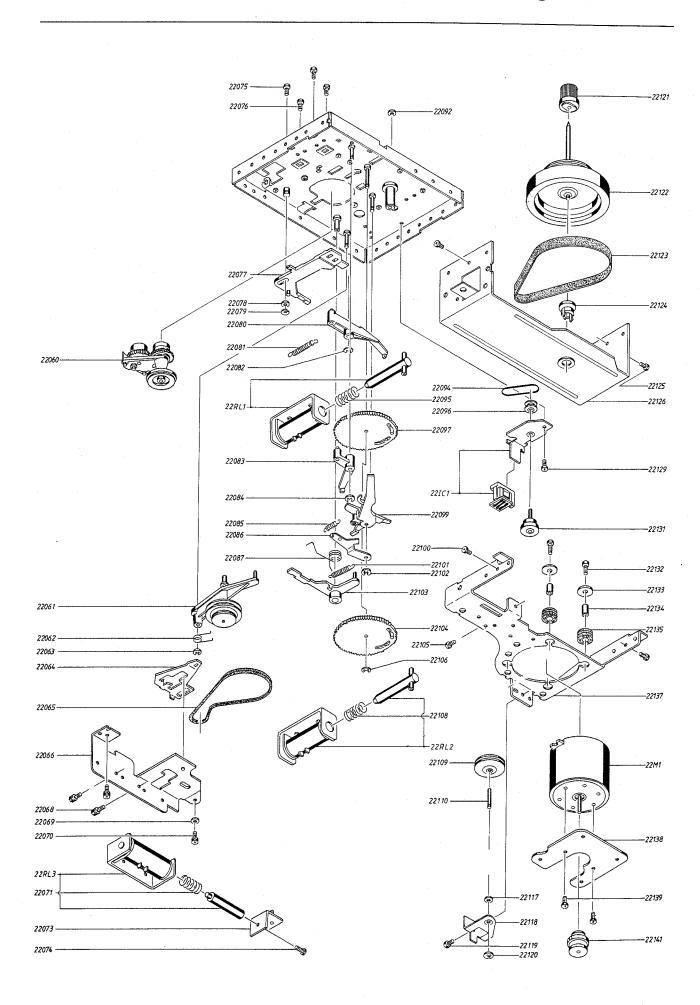
19Modul	8005112	PCB - styrekredsløb	PCB - Control Circuit
2101	2622361	Dækskive	Cover disc
2102	2732058	Rem	Belt
2103	2930074	Afstandsrør	Spacer
2104	2938137	Gummibøsning	Rubber bushing
2105	3170209	Isolationsstykke	Insulator
2106	3124092		Holder
2107	2854084	Arm	Lever
2108	2853093	Arm	Lever
		Isolationsstykke	Insulator
2109		Vippearm	Tilting lever
2110	2810132		Spring
2111		Bøsning	Bushing
2112		Tandsektion	Tooth-section
2113	2819162		Spring
2114		Kurvehjul	Camwheel
2115		Bøsning	Bushing
2116	2819161		Spring
2117	3010019	•	Lever
2118	2810138		Spring
2119	2854086	=	Lever
2120		Pladetallerken	Platter
2121		Skala f/nåletryk	Dial f/tracking force
2122		Kontravægt	Counterweight
2123		Svingring	Fly-wheel
2124		Pickup arm, komplet	Tonearm, assembled
#1#T		Transportsikring pickuparm	Transit protection f/tonearm
2125	2812094		Spring
2126	2854088	· ·	Lever
2127	2627011		Holder
2128		Justeretap	Adjustment pin
2129		Stang, samlet	Connecting rod, assembled
2130		Vippearm	Tilting lever
2131	2810133		Spring
2132		Kurvehjul	Camwheel
2133	2852044	•	Lever
2134	2819163		Spring
2135	2542609		Lever
2136	2810090		Spring
2137	2810139	•	Spring
2138	6140008	•	PCB
2139		Bladfjeder	Leaf spring
2139		Krog f/ophæng	Suspension hook
2141	2810140		Spring Suspension Hook
2142		Pickup MMC5-R	Pick-up MMC5-R
	0904090	rickup wiwico-k	rick-up iviivico-k
21M1	8400119	Motor	Motor
21RL1	8020412	Sugespole	Solenoid
21RL2			Solenoid
21S1		Mikroomskifter	Micro-switch
21S2		Mikroomskifter	Micro-switch
21S3	7402081	Mikroomskifter	Micro-switch

4-7

CC-løbeværk CC-Deck

	6275123 Ledning/slettehoved	Wires/Erase head
22S1 22S2	7400286 Omskifter 7400298 Omskifter	Switch Switch
22H1 22H2	8600072 Tonehoved 8600073 Slettehoved	Tape head Erase head
22050	2390064 E-ring 5	E-ring 5
22049	2812000 Fjeder	Spring
22046	2851134 Bremsearm	Brake lever
22045	2390056 E-ring 1,5	E-ring 1.5
22044	2548206 Vinkel	Bracket
22043	2548205 Vinkel	Bracket
22042	2816208 Bladfjeder	Leaf spring
22041	2039039 Skrue 3 x 4	Screw 3 x 4
22040	2810149 Fjeder	Spring
22039	3164548 Hus	Housing
22038	2819183 Fjeder	Spring
22037	2390090 E-ring 2,5	E-ring 2.5
22036	2622343 Skive	Washer
22035	2812096 Fjeder	Spring
22034	2726002 Spoletallerken	Supply reel
22033	3164547 Dæksel	Cover
22032	2810148 Fjeder	Spring
22031	2622358 Skive 3	Washer 3
22029	2831000 Aksel	Shaft
22028	2034067 Skrue 2 x 4	Screw 2 x 4
22025	2917020 Kugle Ø2	Ball Ø2
22024	2816207 Bladfjeder	Leaf spring
22023	2039050 Skrue 2,6 x 6	Screw 2.6 x 6
22020	2794099 Trykrulle komplet	Thrust roller
22019	2390073 E-ring 2,5	E-ring 2.5
22016	2036042 Skrue 2 x 5, sort	Screw 2 x 5, black
22015	2034068 Skrue 2 x 5	Screw 2 x 5
22014	2034063 Skrue 2 x 5	Screw 2 x 5
22013	3112186 Vinkel	Bracket
22012	3112293 Holder	Holder
22011	2810146 Fjeder	Spring
22010	2819181 Fjeder	Spring
22009	3010000 Styr	Guide
22008	2816280 Bladfjeder	Leaf spring
22007	2039050 Skrue 2,6 x 6	Screw 2.6 x 6
22006	2816281 Bladfjeder	Leaf spring
22005	2622357 Skive	Washer
22004	2036019 Skrue 2,6 x 4	Screw 2.6 x 4
22003	2818000 Fjeder	Spring
22002	2812800 Fjeder	Spring
22001	2034068 Skrue 2 x 5	Screw 2 x 5





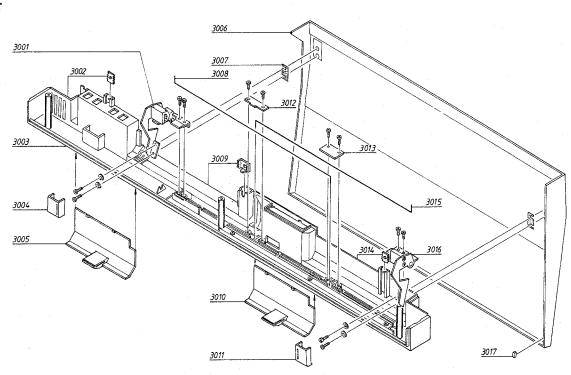
99060	2704000 1/-h1:	C14-1
22060	2794098 Kobling	Clutch
22061	2750000 Kobling	Clutch
22062	2819182 Fjeder	Spring
22063	2390090 E-ring 2,5	E-ring 2.5
22064	3014005 Arm	Arm
22065	2732000 Rem	Belt
22066	2542620 Vinkel	Bracket
22068	2038063 Skrue 3 x 5, sort	Screw 3 x 5, black
22069	2622132 Skive 2,8	Washer 2.8
22070	2036022 Skrue 2,6 x 5, sort	Screw 2.6 x 5, black
22071	2812152 Fjeder	Spring
22073	2530466 Vinkel	Bracket
22074	2038063 Skrue 3 x 5, sort	Screw 3 x 5, black
22075	2039043 Skrue 3 x 4	Screw 3 x 4
22076	2039043 Skrue 3 x 4	Screw 3 x 4
22077	2851135 Arm	Arm
22078	2622293 Skive	Washer
22079	2390053 E-ring 3	E-ring 3
	9	9
22080	2851136 Arm	Arm
22081	2810147 Fjeder	Spring
22082	2390073 E-ring 2,5	E-ring 2.5
22083	2851137 Arm	Arm
22084	2390073 E-ring 2,5	E-ring 2.5
22085	2810150 Fjeder	Spring
22086	2851131 Arm	Arm
22087	2819184 Fjeder	Spring
22092	2622296 Skive	Washer
22094	2732039 Rem	Belt
22095	2812097 Fjeder	Spring
22096	2724070 Remskive	Pulley
22097	2700037 Kurvehjul	Cam-wheel
22099	2851138 Arm	Arm
22100	2039049 Skrue 3 x 5	Screw 3 x 5
22101	2810151 Fjeder	Spring
22102	2390073 E-ring 2,5	E-ring 2.5
22102	2851133 Arm	Arm
22103	2700038 Kurvehjul	Cam-wheel
22105	2039049 Skrue 3 x 5	Screw 3 x 5
22105	2390073 E-ring 2,5	E-ring 2.5
22108		Spring 2.5
	2812097 Fjeder	. 0
22109	2804000 Remskive	Pulley
22110	2831047 Aksel	Shaft
22117	2622299 Skive 2,1	Washer 2.1
22118	2530467 Vinkel	Bracket
22119	2036022 Skrue 2,6 x 5, sort	Screw 2.6 x 5, black
22120	2390056 E-ring 1,5	E-ring 1.5
22121	2700036 Gearhjul	Gear-wheel
22122	2794096 Svinghjul	Fly-wheel
22123	2732064 Rem	Belt
22124	2905078 Bundleje	Bearing
22125	2039049 Skrue 3 x 5	Screw 3 x 5
22126	3112295 Vinkel	Bracket
22129	2039049 Skrue 3 x 5	Screw 3 x 5
22131	3356044 Magnet	Magnet
22132	2036044 Skrue 2,6 x 10, sort	Screw 2.6 x 10, black
22133	2622282 Skive 6,1	Washer 6.1
22134	2932046 Bøsning	Bushing
22135	2932000 Gummibøsning	Rubber bushing
22137	3112294 Vinkel	Bracket
22137	3122054 Motorophæng	Motor suspension
22139	2036021 Skrue 2,6 x 3	Screw 2.6 x 3
22139	2722028 Remskive	Pulley
441	2122020 Remskive	i uney
22RI 1	6840022 Sugarnala	. Colonaid

22RL1	6840033	Sugespole	Solenoid
22RL2	6840033	Sugespole	Solenoid
22RL3	6840034	Sugespole	Solenoid
22IC1	8004007	IC m/holder	IC w/holder
22M1	8400000	Motor	Motor

4-11

Bang&Olufsen

Støvlåg Dust Cover



3001	3030080	Hængsel, højre	Hinge, right
3002	2389073	Gevindstykke	Nut
3003	3430303	Bagstykke	Rear panel
3004	3164522	Dæksel, højre	Cover right
3005	3164524	Dæksel	Cover
3006	3164526	Støvlåg	Dust cover
3007	2641107	Spændestykke	Spacer
3008	2819188	Torsionsfjeder, højre	Torsionspring, right
3009	2389074	Gevindstykke	Nut
3010	3164524	Dæksel	Cover
3011	3164402	Dæksel, venstre	Cover, left
3012	2641109	Spændestykke	Clamp
3013	2641108	Spændestykke	Clamp
3015	2819168	Torsionsfjeder, venstre	Torsionspring, left
3016	3030079	Hængsel, venstre	Hinge, left
3017	3035037	Fod	Foot

2 111	T		1	1			7	7			·
Outlines Metric Dimensions	(→ →		(I) (I)	$\square \oplus$	O B		01	0 1	(3)		C 1
2.3						<u> </u>					2390001
M2.6 x 6	2036016										
2.9										2624045	
M3 x 5	2039020										
3 x 5 self tapping	2013098										
M3 x 6	2039027					2070035					
3 x 6 self tapping	2013906		2013200							<u> </u>	
M3 x 8	2039028										
3 x 9 self tapping	2013104	2013080									
M3 × 10	2039030			2039038							
3 ×12 self tapping	2013032										
3									2390088		
3.2							2624007			2624013	
M4 × 6	2043020										
4×12 selt tapping		2019204									
M4 × 27 Special	2043029										
4									2390006		
4.1								2622338			
4.3								2622024			
M4					2380016						
				•							

Ikke viste dele Parts not shown

3532159	Diagramhæfte	Diagram folder
3180994	Mærkat f/bund SPEAKERS/	Label f/bottom SPEAKERS/
	DOLBY	DOLBY
3180995	Mærkat f/bund 2421 (220V)	Label f/bottom 2421 (220V)
3180996	Mærkat f/bund 2422 (240V)	Label f/bottom 2422 (240V)
3397517	Emballagesæt	Set of packing
3917072	Skumklods f/PU-arm	Foam block f/tonearm
3391752	Yderæske	Outer carton
6271115	Netledning 2421/22	Mains cord 2421/22
6271091	Netledning 2425	Mains cord 2425

Bang&Olufsen

JUSTERINGER, RADIO

AM-MF

Modtageren indstilles på f.eks. 1600 kHz.

Sweepgenerator indstilles til 468 kHz og tilsluttes antenneindgangen.

Oscilloskop tilsluttes 2TP4. 2L5 og 2L6 justeres til max. og symmetrisk MF kurve.

Med 2L7 justeres til max.

ADJUSTMENTS, RADIO

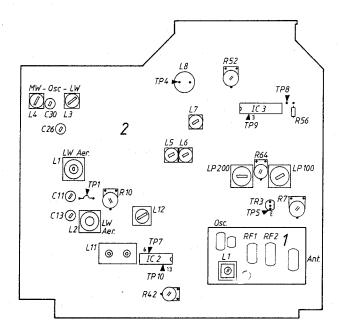
AM-IF

Set the receiver at, e.g., 1600 kHz.

Set the sweep generator at 468 kHz and connect to the aerial input.

Connect an oscilloscope to 2TP4. Adjust 2L5 and 2L6 to max. and symmetrical IF curve.

Adjust with 2L7 to max. output.



MW oscillator og antennekreds

Målesender tilsluttes antenneindgangen, via kunstantenne, og indstilles til 590 kHz mod. 30% 400 Hz.

Modtageren indstilles på 590 kHz.

Wattmeter eller AC meter tilsluttes udgangen.

Med 2L4 justeres oscillatoren på plads.

Med 2L2 justeres antennekredsen til max.

Modtageren og målesender indstilles til 1500 kHz.

Med 2C30 justeres oscillatoren på plads.

Med 2C13 justeres antennekredsen til max.

LW oscillator og antennekreds

Modtager og målesender indstilles til 150 kHz.

Med 2L3 justeres oscillatoren på plads.

Med 2L1 justeres antennekredsen til max. output.

Modtager og målesender indstilles til 350 kHz.

Med 2C26 justeres oscillatoren på plads.

Med 2C11 justeres antennekredsen til max. output.

MW Oscillator and Aerial Circuits

Connect a signal generator, via dummy aerial and set at 590 kHz mod. 30% 400 Hz.

Set the receiver at 590 kHz.

Connect a wattmeter or an AC meter to the output.

Adjust the oscillator dead on with 2L4.

Adjust the aerial circuit to max. with 2L2.

Set the receiver and the signal generator at 1500 kHz.

Adjust the oscillator dead on with 2C30.

Adjust the aerial circuit to max. with 2C13.

LW Oscillator and Aerial Circuit

Set the receiver and the signal generator at 150 kHz.

Adjust the oscillator dead on with 2L3.

Adjust the aerial circuit to max. output.

Adjust the receiver and the signal generator to 350 kHz.

Adjust the oscillator dead on with 2C26.

Adjust the aerial circuit to max output with 2C11.

Afstemningsspænding (skalapasning)

FM målesender tilsluttes antenneindgangen. FM aktiveres.

Skydeomskifter sættes i stilling Mono (-AFC).

Skalaviseren drejes ud til mekansik stop i højre side.

Målesenderen indstilles til 108,5 MHz.

Med 2R7 justeres, så modtagerfrekvensen også er 108,5 MHz.

Skalaviseren drejes til mekanisk stop i venstre side.

Målesenderen indstilles til 87.4 MHz.

Med 2R10 justeres, så modtagerfrekvensen også er 87,4 MHz.

Tuning Voltage (Dial Calibration)

Connect an FM signal generator to the aerial input. Activate FM.

Set the sliding switch in mono mode (-AFC).

Move the dial pointer to its mechanical right hand stop.

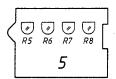
Set the signal generator at 108.5 MHz.

Adjust with 2R7 until the receiver frequency is also 108.5 MHz.

Move the dial pointer to its mechanical left-hand stop.

Set the signal generator at 87.4 MHz.

Adjust with 2R10 until the receiver frequency is also 87.4 MHz.



P1 aktiveres, skalaen for P1 dreies i minimum.

5R5 justeres til modtagerfrekvensen er 87,4 MHz.

P2 aktiveres, skalaen for P2 drejes i minimum.

5R6 justeres til modtagerfrekvensen er 87,4 MHz.

P3 aktiveres, skalaen for P3 drejes i minimum.

5R7 justeres til modtagerfrekvensen er 87,4 MHz.

P4 aktiveres, skalaen for P4 drejes i minimum.

5R8 justeres til modtagerfrekvensen er 87,4 MHz.

Activate P1; turn the P1 dial to min.

Adjust with 5R5 until the receiver frequency is 87.4 MHz.

Activate P2; turn the P2 dial to min.

Adjust with 5R6 until the receiver frequency is 87.4 MHz.

Activate P3; turn the P3 dial to min.

Adjust with 5R7 until the receiver frequency is 87.4 MHz.

Activate P4; turn the P4 dial to min.

Adjust with 5R8 until the receiver frequency is 87.4 MHz.

Tuner

Skala indstilles på 94 MHz.

Sweepgenerator tilsluttes antenneindgangen og indstilles til 94 MHz.

Oscilloscop tilsluttes til 2TP10.

Med 1ANT, 1RF1, 1RF2, 1L1 og 1osc. justeres til max. og symmetrisk MF kurve.

Det kontrolleres, at modtageren dækker frekvensområdet 87,5 MHz – 108 MHz.

Luftspolerne justeres ved at øge eller mindske afstanden mellem vindingerne.

Front End

Set the dial at 94 MHz.

Connect a sweep generator to the aerial input and set it to 94 MHz.

Connect an oscilloscope to 2TP10.

Adjust to max. output and symmetrical IF curve with 1ANT, 1RF1, 1RF2, 1L1 and 1 osc.

Check that the receiver covers the frequency range 87.5 - 108 Mhz.

The air coils are adjustable by increasing or decreasing the spacing between the windings.

MF og detektor

Skala og sweepgenerator indstilles på 94 MHz.

Oscilloscop tilsluttes via en RC probe til 2TP7.

Med spolekernerne i 2L11 justeres til max. og symmetrisk S-kurve.

Muting

Målesender tilsluttes antenneindgangen og indstilles til 97 MHz.

Skala indstilles til 97 MHz FM mono omsk. på auto.

Med 2R42 justeres indtil muting træder i kraft ved $2\mu V$.

114 kHz filter

Tonegenerator indstilles på 114 kHz og tilsluttes 2TP7.

LF voltmeter tilsluttes 2IC3 ben 3 (2TP9).

2L12 justeres til minimum udslag på LF voltmeter.

IF and Detector

Set dial and sweep generator to 94 MHz.

Connect an oscilloscope, via an RC probe, to 2TP7.

Adjust with the coil cores of 2L11 to max output and symmetrical S-curve.

Muting

Connect the signal generator to the aerial input and set it at 97 MHz.

Set the dial at 97 MHz and the mono switch in auto mode.

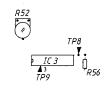
Adjust with 2R42 until muting occurs at 2 μ V.

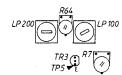
114 kHz Filter

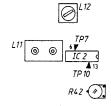
Set an audio oscillator to 114 kHz and connect it to 2TP7.

Connect an AF voltmeter to pin 3 on 2IC3 (2TP9).

Adjust with 2L12 until min. deflection on the AF voltmeter.







Stereodekoder

Modtager indstilles på en mono station.

2TP8 kortsluttes til 2R56.

Frekvenstæller tilsluttes 2TP8.

2R52 justeres til 19 kHz ± 50 Hz.

Stereo Decoder

Tune the receiver to a mono station.

Short-circuit 2TP8 to 2R56.

Connect a frequency counter to 2TP8.

Adjust 2R52 until a reading of 19 kHz ±50 Hz is obtained.

Kanalseparation

FM stereo signal-generator tilsluttes antenneindgang.

Wattmeter eller AC voltmeter tilsluttes LF udgangen.

Med 2R64 justeres til max, kanal separation (bedre end 32 dB).

Channel Separation

Connect a FM stereo signal generator to the aerial input.

Connect a wattmeter or an AC voltmeter to the AF output.

Adjust with 2R64 for max. channel separation (better than 32 dB).

JUSTERINGER BÅNDOPTAGER

ELEKTRISKE JUSTERINGER

Henvisninger er for højre kanal (henvisningerne i parantes er for venstre kanal). Elektriske justeringer foretages med TAPE omskifter i stilling AUTO, og uden DOLBY NR hvis ikke andet er nævnt.

Azimuth



ELECTRICAL ADJUSTMENTS

The instructions refer to the right-hand channel (those in parentheses refer to the left-hand channel). Make the electrical adjustments with the TAPE switch in AUTO mode and without DOLBY NR activated, if not otherwise instructed.

Azimuth



Tonehoved og slettehoved afmagnetiseres.

LF voltmeter tilsluttes 9TP1 (9TP2).

Azimuthbånd 6780036 ilægges.

Play aktiveres.

Skruen A justeres til max. og til ens output for højre og venstre kanal (middelværdi 9TP1 (9TP2)).

Degauss tape head and erases head.

Connect an AF voltmeter to 9TP1 (9TP2).

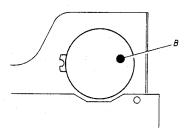
Load azimuth tape 6780036.

Activate Play.

Speed

Adjust the screw A until max, and equal outputs are obtained in both right-hand and left-hand channels (mean value 9TP1 (9TP2)).

Hastighed



Wow bånd 6780037 ilægges.

Med potentiometer B i motoren justeres til korrekt hastighed aflæst på et wow-meters driftmeter i 9TP1.

Justeringen foretages midt på båndet.

Load wow tape 6780037.

Adjust with potentiometer B in the motor for correct speed as read on the drift meter of a wow meter in 9TP1.

Make this adjustment in a mid-tape position.

Gengiveniveau

Justering af gengiveniveau er her beskrevet efter to normbånd.

- 1. DIN standard, 250 pWb mm.
- 2. Dolby level, 200 pWb mm.

Playback Level

The explanations for adjustments of playback level apply in this case to two types of level tapes.

- 1. DIN standard, 250 pWb mm.
- 2. Dolby level, 200 pWb mm.

Bang&Olufsen

1. Pegel bånd 6780035 ilægges. LF voltmeter tilsluttes 9TP1 (9TP2).

9R114 (9R214) justeres til der måles 660 millivolt i 9TR1 (9TP2).

2. Dolby level calibration bånd MTT-150R ilægges. LF voltmeter tilsluttes 9TP1 (9TP2).

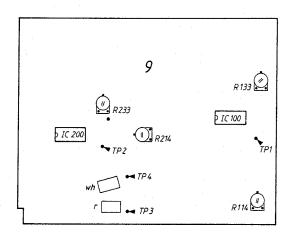
9R114 (9R214) justeres til der måles 580 millivolt i 9TP1 (9TP2).

1. Load level tape 6780035. Connect an AF voltmeter to 9TP1 (9TP2).

Adjust with 9R114 (9R214) until a reading of 660 mV is obtained in 9TP1 (9TP2).

2. Load Dolby level calibration tape MTT-150R. Connect an AF voltmeter to 9TP1 (9TP2).

Adjust with 9R114 (9R214) until a reading of 580 mV is obtained in 9TP1 (9TP2).



PPM

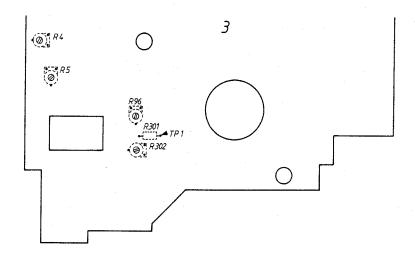
Tonegenerator tilsluttes tape copy indgangen og indstilles til at afgive 200 mV 333 Hz.

Rec. pause aktiveres, og rec. potentiometeret indstilles til der måles 580 mV i 9TP1 (9TP2).

PPM

Connect an audio oscillator to the tape copy input and set it to yield 220 mV 333 Hz.

Activate Rec. pause and adjust the record potentiometer until a reading of 580 mV is obtained in 9TP1 (9TP2).



3R5 justeres til LED'en for 0 dB netop lyser.

Tonegenerator afbrydes.

3R4 justeres til LED'en for -20 dB netop ikke lyser.

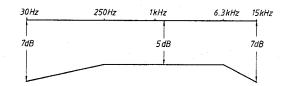
Adjust with 3R5 until the LED for 0 dB just starts glowing.

Disconnect the audio oscillator.

Adjust with 3R4 until the LED for -20 dB just ceases to glow.

Gengive frekvensgang

Playback Frequency Curve



Gengivefrekvensgang afprøves med testbånd 6780056 til at ligge indenfor ovenstående ramme målt i 9TP1 (9TP2).

Test the playback frequency curve with test tape 6780056, and it shall be within the above limits as measured in 9TP1 (9TP2).

Bias oscillator

Frekvenstæller eller oscilloskop tilsluttes over slettehovedet.

Rec. pause aktiveres.

Det kontrolleres at frekvensen er 105 kHz ±3 kHz.

Eventuel justering foretages med kernen i 10T1.

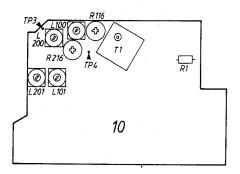
Bias Oscillator

Connect a frequency counter or an oscilloscope across the erase head.

Activate Rec. pause.

Check that the frequency is $105 \text{ kHz} \pm 3 \text{ kHz}$.

Adjust, if necessary, with the core in 10T1.



Bias filter

Sæt tape omskifter i stilling metal.

Sæt record level potentiometer på 0.

Rec. pause aktiveres.

10L100 (10L200) justeres til minimum udslag målt med LF-voltmeter i 10TP4 (10TP3).

Bias Filter

Set the tape switch in MET mode.

Set the record level potentiometer at 0.

Activate Rec. pause.

Adjust 10L100 (10L200) until min. deflection on an AF voltmeter in 10TP4 (10TP3).

Optagehæv

Bias oscillatoren stoppes ved at afbryde 10R1.

Sæt tape omskifter i stilling AUTO.

CrO₂ bånd ilægges.

Rec. pause aktiveres.

Tonegenerator tilsluttes tape copy indgangen, og indstilles til at afgive 333 Hz i 1 volt området.

Record potentiometer indstilles til der måles 3 mV med LF voltmeter i 9TP3 (9TP4).

Tonegenerator indstilles til 10 kHz.

Record Lift

Stop the bias oscillator by disconnecting 10R1.

Set the tape switch in AUTO mode.

Load a CrO2 tape.

Activate Rec. pause.

Connect an audio oscillator to the tape copy input and set it to yield 333 Hz in the 1 V range.

Adjust the record potentiometer until a reading on the AF voltmeter of 3 mV is obtained in 9TP3 (9TP4).

Set the audio oscillator at 10 kHz.

Bang&Olufsen

10L101 (10L201) justeres til der måles 7 mV i 9TP5 (9TP4).

Bias oscillatoren startes.

Bias

Fe₂O₃ bånd ilægges (B&O norm bånd 6780067).

Sæt tape omskifter i stilling AUTO.

Record pause aktiveres.

Record level potentiometer sættes på 0.

Adjust 10L101 (10L201) until a reading of 7 mV is obtained in 9TP3 (9TP4).

Start the bias oscillator.

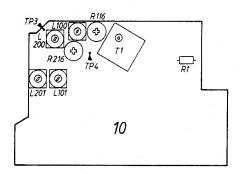
Bias

Load tape Fe₂O₃ (Bang & Olufsen's standard tape 6780067).

Set the tape switch in AUTO mode.

Activate Rec. pause.

Set the record level potentiometer at 0.



10R116 (10R216) justeres til der måles 12 mV i 9TP3 (9TP4) med LF voltmeter.

CrO₂ bånd ilægges (B&O norm bånd 6780066).

Kontroller at spændingen i 9TP3 (9TP4) nu er ca. 20~mV.

Sæt omskifter i MET.

Metal bånd ilægges (B&O norm bånd 6780085).

Kontroller at spændigen i 9TP3 (9TP4) nu er ca. 35 mV.

Adjust with 10R116 (10R216) until a reading of 12 mV is obtained in 9TP3 (9TP4) on the AF voltmeter.

Load CrO₂ tape (Bang & Olufsen's standard tape 6780066).

Check that the voltage in 9TP3 (9TP4) is now approx. 20 mV.

Set the tape switch in MET mode.

Load metal tape (Bang & Olufsen's standard tape 6780085).

Check that the voltage in 9TP3 (9TP4) is now approx. 35 mV.

Optagestrøm CrO2

CrO2 normbånd ilægges (6780066).

Sæt tape omskifter i stilling AUTO.

Tonegenerator tilsluttes TAPE-COPY indgangen og indstilles til 333 Hz 1 V.

Record pause aktivers.

Record level potentiometeret indstilles til der måles 580 mV med LF voltmeter i 9TP1 (9TP2).

Ved henholdsvis at optage og gengive 333 Hz justeres 9R123 (9R233) til der måles 580 mV i 9TP1 (9TP2) både ved optagelse og gengive.

Recording Current CrO₂

Load CrO₂ tape (6780066).

Set the tape switch in AUTO mode.

Connect an audio oscillator to the TAPE-COPY input and adjust it to yield 333 Hz $1\,\mathrm{V}$.

Activate Rec. pause.

Adjust the record level potentiometer until a reading of 580 mV is obtained on an AF voltmeter in 9TP1 (9TP2).

Adjust 9R133 (9R233), while alternatingly recording and playing back 333 Hz until a reading of 580 mV is obtained in 9TP1 (9TP2) both during recording and playing back.

Fe₂O₃ norm bånd ilægges (6780067).

Kontroller at der måles 580 mV \pm 1,5 dB i 9TP1 (9TP2) ved gengivelse.

Sæt tape omskifter i stilling MET.

Metal norm bånd ilægges (6780085).

Kontroller at der måles 580 mV \pm 1,5 dB i 9TP1 (9TP2) ved gengivelse.

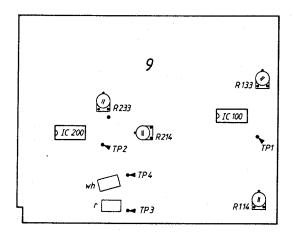
Load Fe₂O₃ standard tape (6780067).

Check that during playback a reading of 580 mV ±1.5 dB is obtained in 9TP1 (9TP2).

Set the tape switch in MET mode.

Load metal standard tape (6780085).

Check that during playback a reading of 580 mV ±1.5 dB is obtained in 9TP1 (9TP2).



Frekvensgangkontrol

333 Hz, 5 kHz og 15 kHz indspilles ved et optageniveay på -30 dB under 0 dB VU (0 dB VU = 580 mV i 9TP1 (9TP2)).

Ved gengivelse tolereres niveauforskelle på 3 dB i hver kanal, målt i 9TP1 (9TP2).

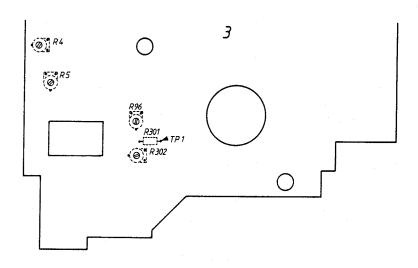
Frequency Curve Check

Record 333 Hz, 5 kHz and 15 kHz at a recording level of -30 dB below 0 dB VU (0 dB VU = 580 mV in 9TP1 (9TP2)).

During playback a level difference of 3 dB is tolerated in either channel, as measured in 9TP1 (9TP2).

Next





Følsomhed

Tonegenerator indstilles til 333 Hz og tilsluttes tape copy indgangen.

Record pause aktiveres.

Record potentiometrene indstilles, til der måles 580 mV i 9TP1 (9TP2).

Sensitivity

Set the audio oscillator at 333 Hz and connect it to the tape copy input.

Activate Rec. pause.

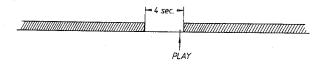
Adjust the record potentiometers until a reading of 580 mV is obtained in 9TP1 (9TP2).

Bang&Olufsen

Signalet dæmpes 24 dB (36 mV i 9TP1 (9TP2)). Med 3R302 justeres til 32 mV i 3TP1.

Attenuate the signal by 24 dB. (36 mV in 9TP1 (9TP2)).

Adjust with 3R302 until a reading of 32 mV is obtained in 3TP1.



Pause

333 Hz indspilles til 0 VU på sidste halvdel af båndet.

Record potentiometret stilles på 0.

Der slettes et stykke på 4 sek. midt på det indspillede.

Båndoptageren stilles i stilling PLAY, og NEXT tasten aktiveres.

3R96 justeres således, at apparatet lige netop går i stilling PLAY ved pausen på 4 sek. (4 sek. pause = ca. midterstilling på 3R96).

MEKANISKE JUSTERINGER

Højde, tonehoveder

Pause

Record 333 Hz to 0 VU on the latter half of the tape.

Set the record potentiometer at 0.

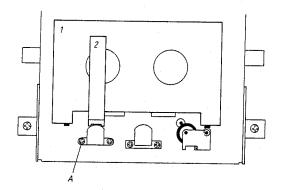
Erase a 4-second section somewhere in the middle of the recording.

Set the tape recorder in PLAY mode and activate the NEXT key.

Adjust 3R96 so that the tape recorder just goes into PLAY mode at the 4-second pause (4-second pause = near the mid-setting on 3R96).

MECHANICAL ADJUSTMENTS

Height, Tape Heads



Højde slettehoved justering foretages med justereværktøj 1 og 2 fra justereværktøjssæt 3624020.

Justerværktøj lægges i kassetteholderen som vist.

Tonehovedbroen presses forsigtigt ind mod værktøj 2.

Med skruen A justeres til båndstyret går ind over værktøj 2.

Højden på tonehovedet kontrolleres ligeledes med værktøj 2.

Erase head adjustments are made by means of the adjustment tools 1 and 2 of the adjustment tool kit 3624020.

Place the adjustment tool in the cassette holder as shown.

Press the tape head bridge carefully until it touches tool 2.

Adjust with the screw A until the tape guide just starts to cover tool 2.

The tape head height is also controlled with tool 2.

Der kan korrigeres for højdefejl v.h.a. skiven under opspændingerne til hovederne.

Følgende skiver kan benyttes:

2624052 0,1 mm 2624053 0,2 mm 2624054 0,3 mm

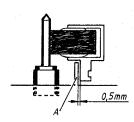
Frigang trykrulle

Height displacements can be rectified by means of the washer under the head fixtures.

The following washers can be used:

2624052 0.1 mm 2624053 0.2 mm 2624054 0.3 mm

Thrust Roller Clearance



Tonehovedbroen trykkes i bund.

Afstanden mellem tappen A på tonehovedbroen og trykrullearmen skal da være ca. 0,5 mm.

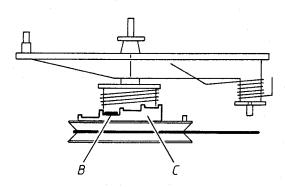
Justering foretages ved at bukke tappen A.

Press the tape head bridge until it bottoms.

The clearance between the pin A on the tape head bridge and the thrust roller arm should now be approx. 0.5 mm.

Make this adjustment by bending the pin A.

Opsamlemoment



Take-up Momentum

Opsamlekoblingen position 22061 afmonteres.

Justering foretages med messingringen B. Opsamlemomentet skal ligge indenfor 30-80 p/cm.

Er momentet for lavt, trækkes messingringen B op fra remskiven og drejes op ad trappetrinene C.

Er momentet for højt, drejes messingringen ned ad trappetrinene.

Remove the take-up clutch 22061.

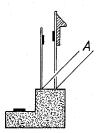
Make the adjustment with thet brass ring B. The take-up momentum shall be in the range 30-80 p/cm.

In case the momentum is too low, pull the brass ring B away from the pulley and turn it up the steps C.

In case the momentum is too high, turn the brass ring down the steps.

Mikroswitche





De tre mikroswitche på løbeværkets bagkant kan justeres til sikkert skift, ved ilægning og udtagning af en kassette, ved at bukke switchene forsigtigt i punkterne A.

Play sugespole

Når ankeret på 22RL1 trykkes i bund, skal det øverste kurvehjul 22097 gå i indgreb; sker dette ikke foretages følgende justering:

Skruerne A løsnes, og sugespolen 22RL1 trækkes frem i pilen C's retning.

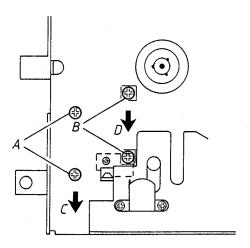
Sugespolen holdes fast, og ankeret trykkes i bund, derefter trækkes sugespolen forsigtigt tilbage indtil det øverste kurvehjul 22097 går i indgreb. The three micro-switches at the rear edge of the train drive can be adjusted to reliable switching during casette loading and unloading by carefully bending the switches at the points A.

Play Solenoid

When the armature in 22RL1 is pressed downwards until it bottoms, the top camwheel 22097 shall engage; if this does not happen, make the following adjustments:

Loosen the screws A and pull the solenoid 22RL1 forwards in the direction of the arrow C.

Hold the solenoid firmly while pressing the armature rearwards until the top camwheel 22097 engages.



Wind sugespole

Når ankeret på 22RL2 trykkes i bund, skal det nederste kurvehjul 22104 gå i indgreb; sker dette ikke foretages følgende justering:

Skruerne B løsnes, og sugespolen 22RL2 trækkes frem i pilen D's retning.

Sugespolen holdes fast, og ankeret trykkes i bund, derefter trækkes sugespolen forsigtigt tilbage indtil det nederste kurvehjul 22104 går i indgreb.

Wind Solenoid

When the armature in 22RL2 is pressed downwards until it bottoms, the lower camwheel 22104 shall engage; if this does not happen, make the following adjustments:

Loosen the screws B and pull the solenoid 22RL2 forwards in the direction of the arrow D.

Hold the solenoid firmly while pressing the armature rearwards until the bottom camwheel 22104 engages.

JUSTERINGER PLADESPILLER

De 3 transportmøtrikker løsnes.

Hastighed

33 omdr./min. skal justeres først. Justeringen foretages med 19R14.

45 omdr./min. justeres med 19R12.

Hastigheden kan kontrolleres på to måder:

- 1. Med stroboskive og en lampe tilsluttet lysnettet. Denne kontrol giver en unøjagtighed på ca. 2%, da netfrekvensen på 50 Hz afgiver ca. ±1 Hz.
- Med stroboskive og stroboskoplampe. Denne kontrol giver en nøjagtighed, som svarer til stroboskoplampens tolerance, hvilket normalt er betydeligt bedre end netfrekvensen.

ADJUSTMENTS, RECORD PLAYER

Loosen the 3 shipment nuts.

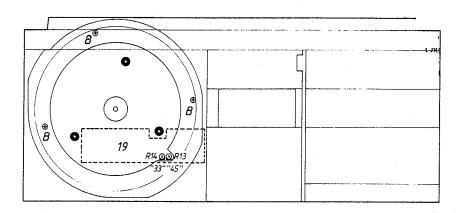
Speed

First adjust 33 r.p.m. Make the adjustment with 19R14.

Next adjust 45 r.p.m. with 19R12.

The speed can be checked in two ways:

- 1. With a stroboscopic disc and a lamp connected to the electric mains. This check will result in an inaccuracy of approx. 2% since the 50 Hz mains frequency fluctuates approx. ±1 Hz.
- With a stroboscopic disc and a stroboscopic lamp.
 This check will result in the same accuracy as the tolerance of the stroboscopic lamp which is normally much closer than that of the electric mains.



MEKANISKE JUSTERINGER

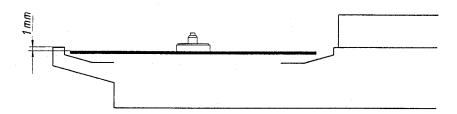
Ved mekaniske justeringer bør apparatet ikke være tilsluttet netspænding.

MECHANICAL ADJUSTMENTS

The set should not be connected to the electric mains during the mechanical adjustments.

Værk højde

Turntable Height



Værk højden justeres med skruerne B indtil overkanten af pladetallerkenen er 1 mm under overkanten af chassiset hele veien rundt. Adjust with the screws B the turntable height until the platter topside is 1 mm below the top edge of the chassis all the way round.

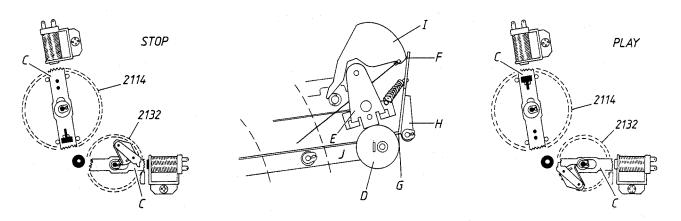
Bang&Olufsen

Pick-up arm hæv/sænk

De to kurvehjul (pos. nr. 2114 og 2132) kan aktiveres ved at skubbe den tværgående midterarm C ind mod centrum og derefter dreje svingringen.

Tonearm Raising/Lowering

The two camwheels 2114 and 2132 can be activated by pushing the traversing centre arm C towards the centre and then turn the fly-wheel.



Kurvehjulet 2132 stilles i stilling STOP.

Eksentrik D drejes forsigtigt indtil den netop berører vippen E, således at armen J er fri for slør.

Kurvehjulet 2132 stilles i stilling PLAY.

Afstanden mellem armen H og pick-uparmsholderen I skal være 1 mm i punktet F. Er afstanden større eller mindre end 1 mm, bukkes armen H i punktet G.

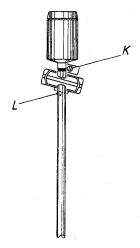
Set the camwheel 2132 in its stop position.

Turn the eccentric disc D carefully until it just is touching the lever E and the arm J is free of slack.

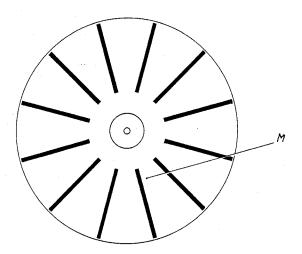
Set the camwheel 2132 in play mode.

The distance between the arm H and the tonearm holder I shall be 1 mm at the point F. Bend the arm H at the point G, if the distance is smaller or greater than 1 mm.

Pick-up højde



Pick-up Height



Eksentrik K drejes mod uret til stop.

Kontravægten stilles 0,5 g under balancepunktet.

Kurvehjulet 2132 stilles i stilling STOP.

Pick-up armen føres ind over den inderste del af pladetallerkenen (punktet M).

Turn the eccentric K anti-clockwise until its stop.

Set the counterbalance weight at 0.5 gram below the point of balance.

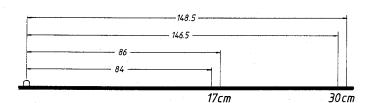
Set the camwheel 2132 in its stop position.

Take the tonearm inwards over the centre part of the platter (the point M).

Skruen L justeres til afstanden mellem pick-up nål og pladetallerken er 5 mm.

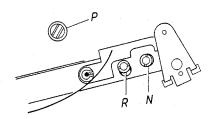
Adjust the screw L until the distance between the pick-up stylus and the platter is 5 mm.

Pick-uparm nedslag



Med eksentrik N justeres til korrekt 30 cm nedslag. Med eksentrik P justeres til korrekt 17 cm nedslag. Adjust with the eccentric N until the correct 30 cm touch-down point.

Adjust with the eccentric P until the correct 17 cm touch-down point.



Pick-uparm stopposition

Eksentrik R drejes med uret til den viste position, og drejes derefter mod uret, indtil pick-uparmen i sin stop position er parallel med chassis siden. Stop positionen kontrolleres ved at køre pick-uparmen ind og ud ved hjælp af svingringen.

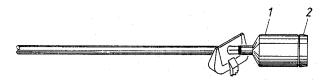
Pick-uparm balance

Tonearm Stop Position

Tonearm Touch-down

Turn eccentric R clockwise to the position shown, and then turn it anticlockwise until the tonearm in its stop position is parallel to the chassis side. Check the stop position by letting the tonearm travel in and out by means of the fly-wheel.

Tonearm Balance



Kontravægten (1) skrues ud eller ind til pick-up armen er i balance.

Kontravægten holdes fast, og skalaen (2) nulstilles.

Kontravægten, der leveres med apparatet, er forindstillet og låst fra fabrikken.

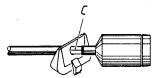
Screw the counterbalance weight (1) inwards or outwards until the pick-up arm is balancing.

Hold the counterbalance weight firmly and zero the dial (2).

Prior to shipping the set, the manufacturer has pre-set and locked the counterbalance weight.

Bang&Olufsen

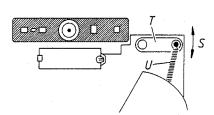
Pick-up parallelitet



Skruen C løsnes.

Pick-uparmen drejes til afstandene A og B er ens, og pick-up'ens plane stykke er parallel med pladens overside.

Antiskating



Testplade 3621045 pålægges pladetallerkenen.

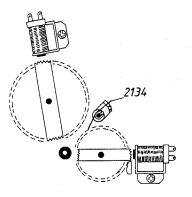
Nåletryk stilles til 1,5 gram med MMC 5.

Oscilloskop tilsluttes højre og venstre kanal.

Skæring 1 afspilles.

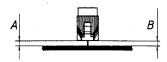
Armen T skubbes i retning S, til forvrængningen er ens i begge kanaler (ved forvrængning i venstre kanal skal fjedren U slækkes, for højre kanal skal fjedren strammes).

Fjeder 2134



Fjederen 2134 skal altid monteres i hakket vist på skitsen.

Tonearm Parallelism



Loosen screw C.

Turn the tonearm until the clearance A and B are equal and the straight section of the pick-up is parallel to the topside of the record.

Antiskating

Place the test record 3621045 on the platter.

Set the stylus pressure at 1.5 grams with MMC 5.

Connect an oscilloscope to the right-hand and left-hand channels.

Play cut 1.

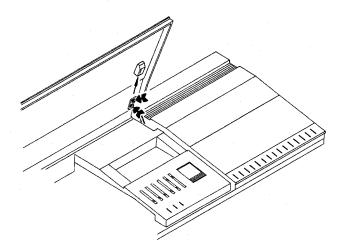
Push the arm T in either direction of the arrow S until there is equal distortion in both channels (slacken spring U for left-hand channel distortion, tighten it for right-hand channel distortion.

Spring 2134

Always fit the spring 2134 in the notch as shown in the diagram.

Støvlåg

Dust Cover



Den viste kappe trækkes af i pilens retning.

Ved at løsne de med pile markerede skruer, kan låget justeres til korrekt pasning.

Lignende justering findes også i venstre side.

Pull the cover, as shown, off in the direction of the slender arrow.

The dust cover can be adjusted for correct fit by loosening the screws indicated by the bold arrows.

Similar adjustment can be made at the left-hand side as well.

Bang&Olufsen

TECHNICAL SPECIFICATIONS	Power output RMS DIN	2 x 25 W/4 Ω
		2 x 20 W/8 Ω
Amplifier	Harmonic distortion -26 dB	<0.15%
•	Harmonic distortion	<0.2%
	Intermodulation	<0.4%
	Frequency range ±1.5 dB	20-20,000 Hz
	Damping factor	>20
	Input TAPE COPY	600 mV/40 kΩ
	Signal-to-noise ratio PHONO	>78 dB
	Output ext. TAPE (FM ±40 kHz)	200 mV 1 kΩ
	Output PHONES	Max. 16 V/220 Ω
	Channel separation 1000 Hz	>46 dB
	BASS control at 40 Hz	±14 dB
	TREBLE control at 12,500 Hz	±14 dB
	THEBEE CONTROL AT 12,000 FIZ	217 05
FM Section	FM frequency range	87.5-108 MHz
	Aerial impedance	75/240 Ω
	Sensitivity stereo 46 dB	<35 μV/75 Ω
	Frequency range ±1.5 dB	20-15,000 Hz
	Harmonic distortion	<0.5%
	Stereo channel separation	>35 dB
	otorio onamio, osparation	
AM Section	LW range	147-350 kHz
	MW range	520-1610 kHz
	Sensitivity LW 20 dB	110 μV
	Sensitivity MW 20 dB	90 μV
	Constant, IIII 20 05	
Record Player	Speeds	33/45 rpm.
Tiooota Tiayor	Wow and flutter, DIN	<±0.7%
	Wow and flutter, WRMS	<±0.035%
	Rumble, weighted	>70 dB
	Rumble, unweighted	>50 dB
	Tumbio, anwoighted	
MMC5	Stylus	Elliptical diamond 6x17 µm
	Recommended tracking force	15 mN/1.5 g
	Frequency range	20-20,000 Hz ±3 dB
	Channel separation 1000 Hz	>20 dB
	400-10,000 Hz	>15 dB
	Channel difference	<2.5 dB
	Effective tip mass	0.5 mg
	Compliance	20 μm/mN
	Sensitivity mV/cm/sec.	>0.6 mV/47 kΩ
	Output 5 cm lateral	>2.12 mV/47 kΩ
,	Output 5 cm lateral	72.12 111V/4/ KS2
	3002	
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	succession and an experience of the second s	

Tape Recorder

Subject to change without notice	
Weight	11 kg
Dimensions W x H x D	74 x 9.5 x 32.5 cm
Power consumption	18-135 W
Power frequency	50-60 Hz
Power supply	110-130-220-240 V
Microphone input	0.15 mV/2 kΩ
Signal-to-noise ratio Chrome	>57 dB
Signal-to-noise ratio Metal	>58 dB
Signal-to-noise ratio Ferro Dolby NR	>63 dB
Signal-to-noise ratio Chrome Dolby NE	R >65 dB
Signal-to-noise ratio Metal Dolby NR	>66 dB
Frequency range metal/chrome/ferro	30-15,000 Hz
Fast forward and rewind C60	75 sec.
Speed deviation	<±1.5%
Wow and flutter	<±0.2%
	Man. Metal
Tape switch	Auto ferro/chrome
Noise reduction	Dolby B
Tape head	Super permalloy
Compact cassette	C60-C90

Other Data

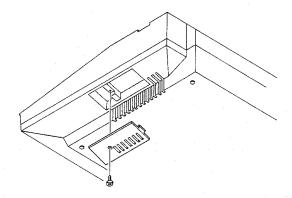
Bang&Olufsen

ADSKILLELSE

Sikringer

DISMANTLING

Fuses

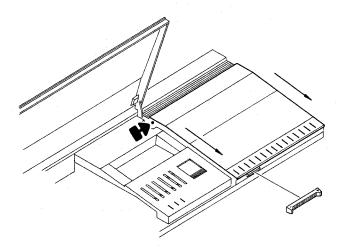


Når den viste skrue er fjernet, kan dækslet over sikringerne tages af.

After removal of the screw shown the fuse cover can be removed.

Skalalamper

Dial Lamps



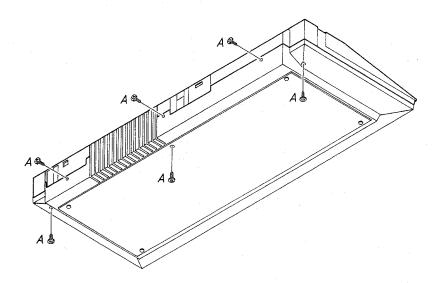
Afmonter volumenknappen (ved at trække i den).

Låsepalen i skalapanelets venstre side presses ind med en skruetrækker og samtidigt trækkes skalapanelet frem som vist. Remove the volume key (by pulling).

Press the locking pawl at the left side of the dial panel in with a screwdriver while simultaneously pulling the dial panel forwards as shown.

Bagprofil med støvlåg

Rear Profile with Dust Cover

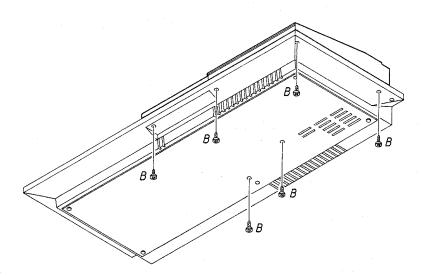


De tre viste skruer i bunden, samt de tre skruer i bagkanten skrues ud.

Unscrew the three screws shown at the bottom as well as the three screws at the rear edge.

Betjeningspanel

Control Panel



Bagprofil med støvlåg afmonteres.

De seks viste skruer i bunden skrues ud.

Betjeningspanelet er nu frigjort og kan anbringes i servicestilling bagved apparatet (med enten knapper eller printplader opad). Remove the rear profile with dust cover.

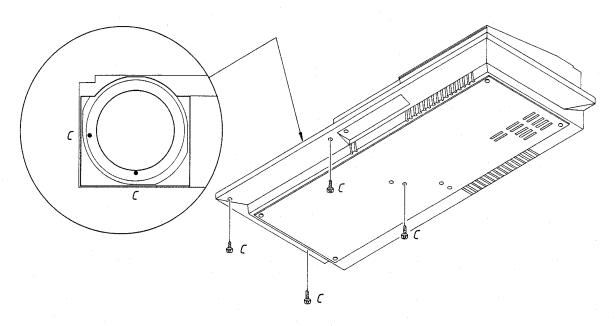
Unscrew the six bottom screws shown.

The control panel is now released and can be placed in servicing position behind the set (with either buttons or PCBs facing upwards).

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Topplade, pladespiller





Bagprofil med støvlåg afmonteres.

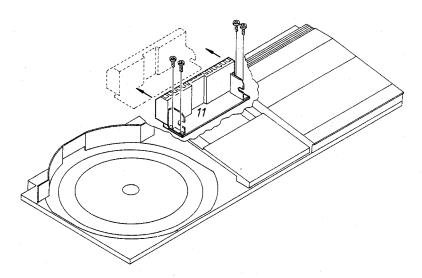
De fire viste skruer i bunden og de to i toppladen skrues af.

Udgangsforstærker, PCB11

Remove rear profile with dust cover.

Unscrew the four bottom screws shown and the two in the top plate.

Output Amplifier, PCB11

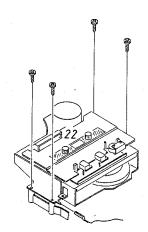


Bagprofil med støvlåg afmonteres.

Nu er PCB11 tilgængelig og kan rykkes ud i servicestilling ved at skrue de fire viste skruer ud. Remove the rear profile with dust cover.

PCB11 is now accessible and can be pulled into servicing position after unscrewing the four screws shown.

Båndoptager

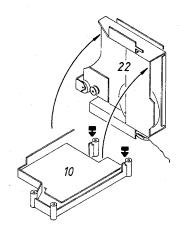


Toppladen for pladespilleren afmonteres og radiodelen anbringes i servicestilling.

De fire viste skruer fjernes.

Båndoptagerløbeværket kan nu løftes op og anbringes i servicestilling (de to viste hak i støttebenene på bundpladen).

Tape Recorder



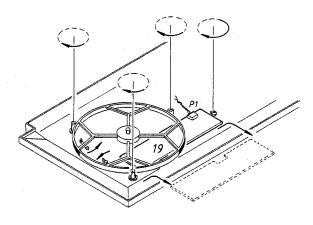
Remove the top plate of the record player and place the radio section in servicing position.

Unscrew the four screws shown.

Record Player Circuit, PCB19

The tape recorder drive train can now be lifted and placed into servicing position (the two notches shown in the bottom plate supports).

Pladespillerkredsløb, PCB19



Toppladen for pladespilleren aftages:

De tre viste stop for svingning drejes 1/4 omdr. med uret.

Rem og svingring aftages.

De to arme/ledningsholdere drejes, således at ledningsbundtet for motoren kan frigøres.

Aftag P1.

Drej det viste stop for PCB19 1/2 omdr.

Ved at skubbe PCB19 til højre kan den nu trækkes ud over apparatets forkant som vist. Remove the top plate of the record player.

Turn the three stops of the fly-wheel 1/4 turn clockwise.

Remove belt and fly-wheel.

Turn the two arms/wire holders in such a way that the bundled wires for the motor can be released.

Remove P1.

Turn the stop shown for PCB19 1/2 turn.

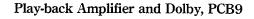
By pushing PCB19 to the right it can now be pulled over the front edge of the set, as shown.

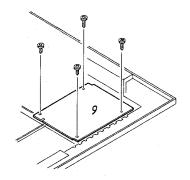
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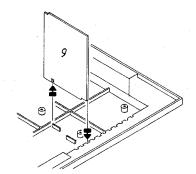
NB: Husk at dreje de tre stop for svingring tilbage ved samling af apparatet.

NOTE: Do not forget to turn the three stops back when re-assembling the set.

Gengiveforstærker og Dolby, PCB9







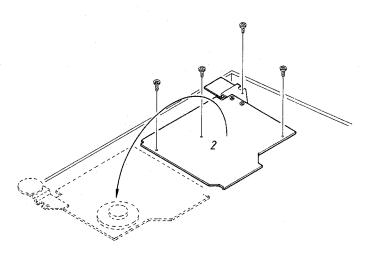
De fire viste skruer skrues ud.

Unscrew the four screws shown.

PCB9 kan nu anbringes i en af udskæringerne i bundes forkant og med det viste hak i PCB9 i indgreb med bundribben. PCB9 can now be placed in one of the notches at the front edge of the bottom so that the notch of PCB9 engages the bottom comb.

AM-FM del

AM-FM Section



Når de fire viste skruer er afmonteret kan PCB2 vippes over i servicestilling ovenpå PCB 5/6/8. – Der bør dog anbringes et stykke isolerende materiale mellem disse og PCB2!

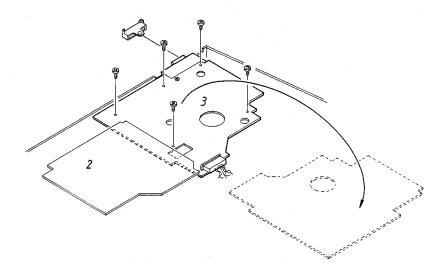
When the four screws shown are unscrewed, PCB2 is tiltable into servicing position on top of PCB 5/6/8. – However, an insulating material should be inserted between these and PCB2!

NB: Husk kontrol af skalapasning ved samling (se justeringer og servicetips).

NOTE: Do not forget to check dial alignment when reassembling (see adjustments and service tips).

Kontrolkredsløb PCB3

Control Circuit, PCB3



PCB2 anbringes i servicestilling.

Styr for skalaknap trækkes af.

Når de fem skruer er skruet ud, kan PCB3 vippes over som vist.

Place PCB2 into servicing position.

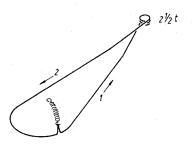
Pull off guide for dial knob.

When the five screws are unscrewed, PCB3 is tiltable, as shown.

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SERVICETIPS

Skalasnor



Mekanisk skalapasning

Skala og afmaskning afmonteres (se adskillelse).

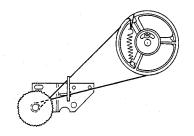
Drejekondensatoren drejes helt ud (min. kapacitet).

Skruen A løsnes og skalaviseren (0D1) justeres til at være ud for mærket B.

Skruen A strammes.

SERVICETIPS

Dial Cord



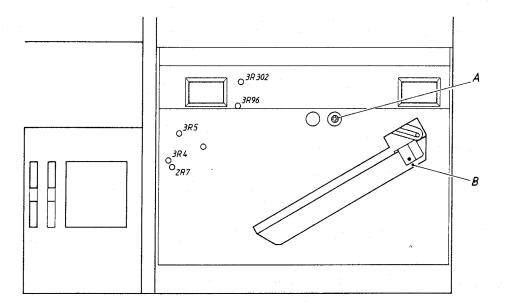
Mechanical Dial Calibration

Remove dial and masking (see Dismantling).

Turn the variable capacitor all the way out (min. capacitance).

Loosen the screw A and set the dial pointer (0D1) opposite the indication point B.

Tighten the screw A.



PCB2 og PCB3 justeringer

Følgende justeringer er tilgængelige gennem huller i betjeningspanelet, når skala m.m. er afmonteret (se adskillelse):

3R96	Next pause
3R302	A
3R4	PPM -20 dB
3R5	PPM 0 dB
2R7	Afsterningsspænding 108.5 MHz.

PCB2 and PCB3 Adjustments

The following adjustments are accessible through apertures in the operating panel when the dial etc. has been removed (see Dismantling):

3R96	Next pause
	Next sensitivity
3R4	PPM -20 dB
3R5	PPM 0 dB
2R7	Tuning voltage 108 5 MHz

Smøring

Behovet for eftersmøring er minimalt, men ved større eftersyn og ved udskiftning af vigtige mekaniske dele, bør disse retningslinier følges.

Lubrication

The need for lubrication is negligible, but the directions given below should be followed during overhauls and when replacing major mechanical components.

Tonehovedbro 22012: Glideflader mod tappe i topchassis, vinkel 22013 og kugle 22025.	Tape head bridge 22010: Fase slidings against taps in top chassis, bracket 22013 and ball 22025.	3984216 Rocol MTS 1000
Kobling 22060: Glideflade mod vinkel 22066 og vinkel 22064.	Clutch 22060: Fase sliding against bracket 22066 and bracket 22064.	
Kurvehjul 22097 og 22104: Glideflade mod aksel i topchassis.	Cam lifting wheel 22097 and 22104: Fase sliding against shaft in top chassis.	
Trykrulle 22020: Glideflade mod aksel.	Pressure wheel 22020: Fase sliding against shaft.	3984021
Svinghjul 22122: Glideflade mod bundleje	Flywheel 22122: Fase sliding against bottom bearing 22124.	Eprohon grease
Spoletallerkener 22034 og 22048: Glideflader mod aksler i topchassis og og ring 22036.	Shafts for turntables 22034 and 22048: Fase slidings against shafts in top chassis and ring 22036.	3984022 Floil GB-TS-1
Berøringsflader mellem aksel 22029, vinkel 22044 og vinkel 22043.	Surfaces of contact between shaft 22029, bracket 22044 and bracket 22043.	

Wow frekvenser

Wow frequencies

Frekvens/Frequency	Fejlkilde	Source of Failure	Pos. nr./Pos. no.
0.37 Hz	Remskive	Pulley	22096
1.17 Hz	Trykrulle	Thrust roller	22020
2.7 Hz	Spoletallerkener (midt på bånd)	Supply reels (middle of tape)	22034/22048
3 Hz	Rem	Belt	22065
4.2 Hz	Rem	Belt	22123
6 Hz	Svinghjul	Flywheel	22122
9.6 Hz	Opsamlekobling	Take-up clutch	22061
12.7 Hz	Remskive	Pulley	22109
36.7 Hz	Remskive	Pulley	22141

Ledningsfarver

Colour of Wires

b	black	schwartz	sort	noir
bl	blue	blau	blå	bleu
br	brown	braun	brun	brun
gr	green	grün	grøn	vert
grey	grey	grau	grå	gris
or	orange	orange	orange	orange
r	red	rot	rød	rouge
v .	violet	violett	violet	violet
wh	white	weiss	hvid	blanc
y	yellow	gelb	gul	gaune

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Permanent tilslutning af ekstern båndoptager

Ved permanent tilkobling af f.eks. en båndoptager til TAPE COPY stikdåsen kan der monteres 8 stk. 8 mm høje glidesko under apparatet, således at ledningen til den eksterne båndoptager kan placeres under apparatet.

Glideskoene leveres i sæt af 4 stk., under reservedelsnr. 3103122.

Tonehovedbro går fast

I de først producerede apparater kan der forekomme en fejl, hvor tonehovedbroen går fast (for lidt frigang).

Problemet løses ved at udskifte styret pos. nr. 22008. Det nye styr leveres sammen med en kugle (som pos. nr. 22024).

Ændringen er indført i produktionen.

Apparat starter ikke på P1

Apparatet starter periodisk ikke på P1, når det (i varm tilstand) slukkes, og tændes umiddelbart efter.

Problemet kan løses ved at afbryde 12 V forsyningen til ben 13-14 på 3IC3 og indskyde en modstand 22 k Ω , samt montere en kondensator 22 μ F/16 V fra ben 13-14 til stel.

Ændringen er indført i produktionen efter ca. 12.500 apparater.

Kontrol af bias

Bias kan kontrolleres ved forvrængningsmåling:

Fe₂O₃ 2% CrO₂ 2% Metal 1%

Permanent Hook-up With External Tape Recorder

For permanent hook-up of, say, a tape recorder to the TAPE COPY plug, fit 8 of 8 mm high sliding shoes below the set so the hook-up wiring for the external tape recorder can be concealed below the set.

The sliding shoes are available in sets of 4 as spare part No. 3103122.

Tape head bridge seizes

In the early sets a fault may arise that the tape head bridge seizes (too little clearance).

The problem may be solved by replacing guide pos. no. 22008. The new guide is delivered together with a ball (like pos. no. 22024).

Modification has been introduced in production.

Set Does Not Start On P1

The set periodically does not start on P1, when it is (in warm condition) switched off, and immediately after switched on.

The problem can be solved by interrupting the 12 V supply to pins 13-14 on 3IC3 and inserting a resistor 22 k Ω , as well as mounting a capacitor 22 μ F/16 V from pins 13-14 to chassis.

The modification was introduced in production after approx. 12,500 sets.

Check of Bias

Bias may be checked by means of distortion measurements:

Fe₂O₃ 2% CrO₂ 2%

Metal 1%

ISOLATIONSTEST

Ethvert apparat skal isolationstestes efter det har været adskilt. Testen udføres når apparatet igen er helt samlet og klar til udlevering til kunden (med transportskruerne spændte).

Isolationstesten udføres på følgende måde:

De to stikben på netstikket kortsluttes og tilsluttes en af terminalerne på isolationstesteren.

Netafbryder sættes i position ON.

Den anden terminal fra isolationstesteren tilsluttes stelbenet i en af højttalerstikdåserne.

OBS!

For at undgå beskadigelser på apparatet er det vigtigt, at begge terminaler fra isolationstesteren har virkelig god mekanisk kontakt.

Der drejes nu langsomt med spændingsreguleringen på isolationstesteren til en spænding på 1,5 – 2 KV er opnået. Her skal den holdes i 1 sekund, derefter drejes der langsomt ned for spændingen igen.

Der må ikke på noget tidspunkt under testen forekomme overslag.

INSULATION TEST

Each record player **must** be insulation tested after having been dismantled. The test is to be made when the record player has been reassembled completely and is ready for delivery to the customer (with the transit screws tightened).

Make the insulation test as follows:

Short-circuit the two pins of the mains plug and connect one of the terminals to the insulation tester.

Set the mains switch in position ON.

Connect the other terminal of the insulation tester to the chassis pin in one of the speakers sockets.

NOTE!

To avoid ruining the record player it is essential that both insulation tester terminals are in really good mechanical contact.

Now slowly turn the voltage control of the insulation tester until a voltage of 1.5-2 kV is obtained. Hold it there for 1 second, then turn the voltage down again.

At no point during the testing procedure any flashovers are permissible.